

Existing and Future Truck Delay in Hampton Roads

Preparation for Project Prioritization

DRAFT

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**HAMPTON
ROADS** **TPO**
TRANSPORTATION PLANNING ORGANIZATION

July 2013



EXISTING AND FUTURE TRUCK DELAY IN HAMPTON ROADS

PREPARATION FOR PROJECT PRIORITIZATION

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Existing and Future Truck Delay in Hampton Roads:
Preparation for Project Prioritization

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NOTE:

Existing truck delay provided largely through Keith Nichols' contribution to the 2012 Hampton Roads Regional Freight Study.

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ABSTRACT

This study builds on the work contained within HRTPO's Hampton Roads Regional Freight Study (September 2012), expanding the analysis of existing truck volumes and delays by location to include future truck volumes and delays in Hampton Roads. It uses the new truck component and time-of-day capability of the regional travel demand model to forecast truck volumes and congestion to be faced by trucks in the next 20 years. This is the first time that the HRTPO staff has forecasted future truck traffic or truck delays. The results of this analysis include future roadway segments with the highest total weekday truck delays. The HRTPO staff plans to review the freight component of the HRTPO Project Prioritization Tool and incorporate any changes that are warranted. In this way, the HRTPO Board can better consider freight when making funding decisions for transportation improvements.

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This document was prepared by the Hampton Roads Transportation Planning Organization (HRTPO) in cooperation with the U.S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), Federal Transit Administration (FTA), Virginia Department of Transportation (VDOT), Virginia Department of Rail and Public Transportation (DRPT), Freight Technical Advisory Committee (FTAC), and the local jurisdictions and transit agencies within the Hampton Roads metropolitan planning area. The contents of this report reflect the views of the HRTPO. The HRTPO staff is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the FHWA, FTA, VDOT or DRPT. This report does not constitute a standard, specification, or regulation. FHWA, FTA, VDOT or DRPT acceptance of this report as evidence of fulfillment of the objectives of this program does not constitute endorsement/approval of the need for any recommended improvements nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project level environmental impact assessments and/or studies of alternatives may be necessary.

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INTRODUCTION

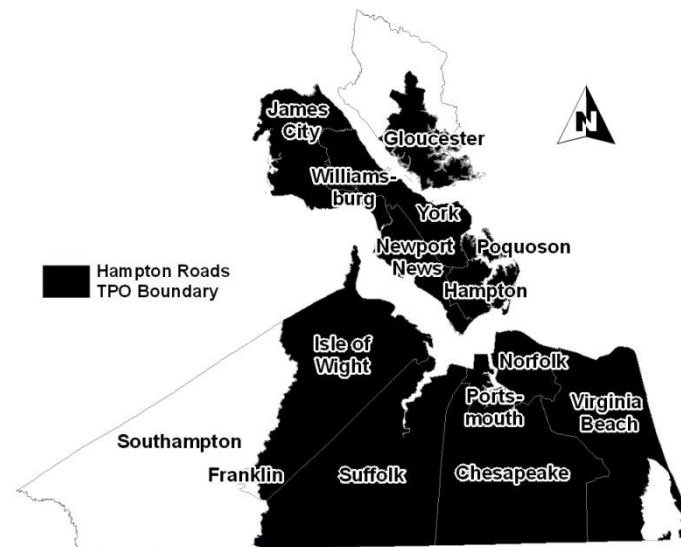
Hampton Roads is a multimodal region that includes ports, airports, rail, private trucking, shipping and warehouse distribution facilities, as well as a network of road and rail corridors for the delivery of freight, goods, and services. Trucks are the primary mover within this system and are responsible for delivering a majority of what local citizens consume and use on a daily basis – groceries, gas, clothes, and medicine. Roadway congestion adds to the operating costs of companies and shippers, impacting the economic competitiveness of the Port of Virginia, Hampton Roads, and the state of Virginia. In order for Hampton Roads to remain competitive in attracting new business interests and continue to grow economically, its transportation network must facilitate the movement of products using trucks.

According to Federal Highway Administration's (FHWA) Freight Analysis Framework (FAF), the overall tonnage of domestic goods that will be moved into, within, and out of Hampton Roads by truck is expected to increase 65% from 66.9 million tons to 110.1 million tons between 2010 and 2040¹. The value of those same goods is expected to rise more than 133% from \$85.9 billion to \$200.3 billion between 2010 and 2040. In 2010, trucks were the predominant mode used to move these domestic goods in terms of tonnage (51%) and dollar value (69%). By 2040, trucks are expected to remain the primary mover of domestic cargo for the region at 51% by tonnage and 60% by dollar value. With trucks being the primary method of transporting domestic freight both today and in the future, the efficient movement of trucks on the regional roadway network is essential to the region's success.

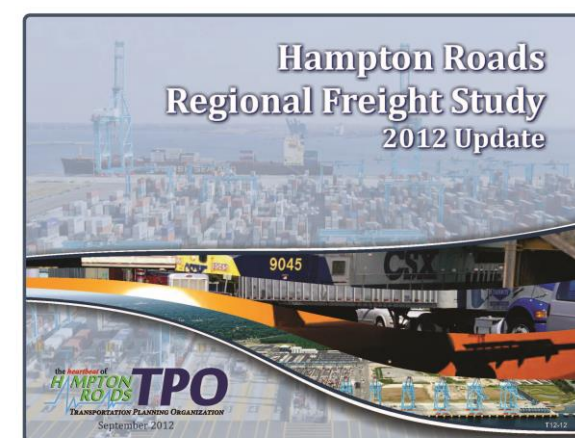
STUDY PURPOSE

In September 2012, The Hampton Roads Metropolitan Organization (HRTPO) staff completed the Hampton Roads Regional Freight Study². This 2013 study builds on the work contained within this 2012 study, expanding the analysis of existing truck volumes and delays by location to include future truck volumes and delays in Hampton Roads. It uses the new truck component and time-of-day capability of the regional travel demand model to forecast truck volumes and congestion to be faced by trucks in the

Hampton Roads Metropolitan Planning Area



Hampton Roads Regional Freight Study: 2012 Update



¹ Hampton Roads Regional Freight Study: 2012 Update, HRTPO, September 2012, p. 11.

² Ibid.

next 20 years. This is the first time that the HRTPO staff has forecasted future truck traffic or truck delays. The results of this analysis include future roadway segments with the highest total weekday truck delays.

It is important to note that the truck delay analysis contained in this report is not the same as the congestion analysis in the Hampton Roads Congestion Management Process (CMP)³. The CMP congestion analysis determines weekday congestion levels by roadway segment for *all* vehicles including trucks. Weekday truck delay in this report is a function of the congestion on a given roadway segment and the number of trucks that use that same segment each weekday. For example, a roadway segment with high congestion levels and low truck volumes will have low total truck delay due to that volume.

The HRTPO staff plans to review the freight component of the HRTPO Project Prioritization Tool⁴ and incorporate any changes related to truck delays that are warranted. In this way, the HRTPO Board can better consider freight when making funding decisions for transportation improvements.



Truck traveling on Hampton Boulevard toward the Midtown Tunnel in Norfolk, Virginia

³ Hampton Roads Congestion Management Process: 2010 Update, HRTPO, September 2010.

⁴ Hampton Roads Prioritization of Transportation Projects, HRTPO, December 2010.

TRUCK DELAY – 2010 EXISTING

Prior to forecasting truck volumes and congestion to be faced by trucks in the next 20 years, it is important to review current travel conditions for trucks in the region. This section provides the existing congested truck travel results from the recently completed Hampton Roads Regional Freight Study⁵.

TRUCK DELAY METHODOLOGY

Congested travel is measured by delay – the difference between an “ideal” travel time and the “actual” travel time. The “ideal” travel time is determined by the length of the travel segment divided by the free flow travel speed or uncongested speed. The “actual” travel time is determined the length of the travel segment divided by the actual travel speed or congested speed. Total truck delay is determined by multiplying the delay for a given travel segment by the truck volume (number of trucks).

$$\text{Total Truck Delay} = \left(\frac{(\text{Truck Volume} \times \text{Segment Length})}{\text{Segment Actual Travel Speed}} \right) - \left(\frac{(\text{Truck Volume} \times \text{Segment Length})}{\text{Segment Free Flow Travel Speed}} \right)$$

Within the “Regional Truck Movement” section of the Hampton Roads Regional Freight Study⁶, the HRTPO staff estimated the amount of existing total truck delay in Hampton Roads using the 2010 INRIX average weekday speed data from the Hampton Roads Travel Time/Speed Study⁷ and the most recent Virginia Department of Transportation (VDOT) truck volumes/estimates. In order to clarify the “existing” terminology used in the regional study, this section will refer to the year for that analysis as “2010 existing”.

INRIX is a private company that has deployed new technologies to collect travel time and speed data on a continuous basis throughout the nation’s largest metropolitan areas. INRIX’s primary data source is millions of GPS-enabled fleet vehicles – such as taxis, service vehicles, and long haul trucks. The travel time and speed data for the year 2010 was purchased by

VDOT and provided to Metropolitan Planning Organizations throughout the state. Within Hampton Roads, INRIX data was available in 15-minute intervals by direction for approximately 1,080 miles of the Hampton Roads roadway network called the regional “Travel Time Network”.

Truck volumes from 2009 to 2011 were calculated using Chesapeake Bay Bridge-Tunnel (CBBT) and VDOT vehicle classification data on the regional Travel Time Network. VDOT categorizes vehicles using the Federal Highway Administration’s (FHWA) vehicle classification scheme, which categorizes each vehicle into one of 15 vehicle classes. FHWA classifies a vehicle as a truck if it is included in Vehicle Classes 5 through 13. CBBT vehicle classification data is based on varying toll rates and number of axles.

Although vehicle classification data was not available for each roadway segment on that network, VDOT produces estimates of daily truck percentages on those roadway segments where vehicle classification count data is not collected. VDOT produces the estimates by linking each of these locations to nearby roadway segments on the same route where vehicle classification data is collected. For each location on the regional Travel Time Network where vehicle classification data was not collected, HRTPO staff 1) used VDOT’s daily truck percentage estimates to calculate daily truck volumes, and 2) used VDOT’s linked locations to calculate estimates of truck time of day distributions.

TOTAL WEEKDAY TRUCK DELAY – 2010 EXISTING

For each Travel Time Network roadway segment, total truck delays were calculated for each 15-minute interval. The 2010 Existing total weekday truck delay included only delay that occurred between the hours of 5:30 am and 8:00 pm (14.5 hours) because INRIX data was not consistently available outside of that time period. This lack of data was due in part to INRIX’s fleet vehicles for data, many of which are not travelling during overnight hours. It is assumed that little truck delay occurred in 2010 during the 8 pm to 5:30 am time period.

The amount of 2010 existing total weekday truck delay on each roadway segment is shown in **Maps 1 and 2** on pages 10-11. **Appendix A** tabulates

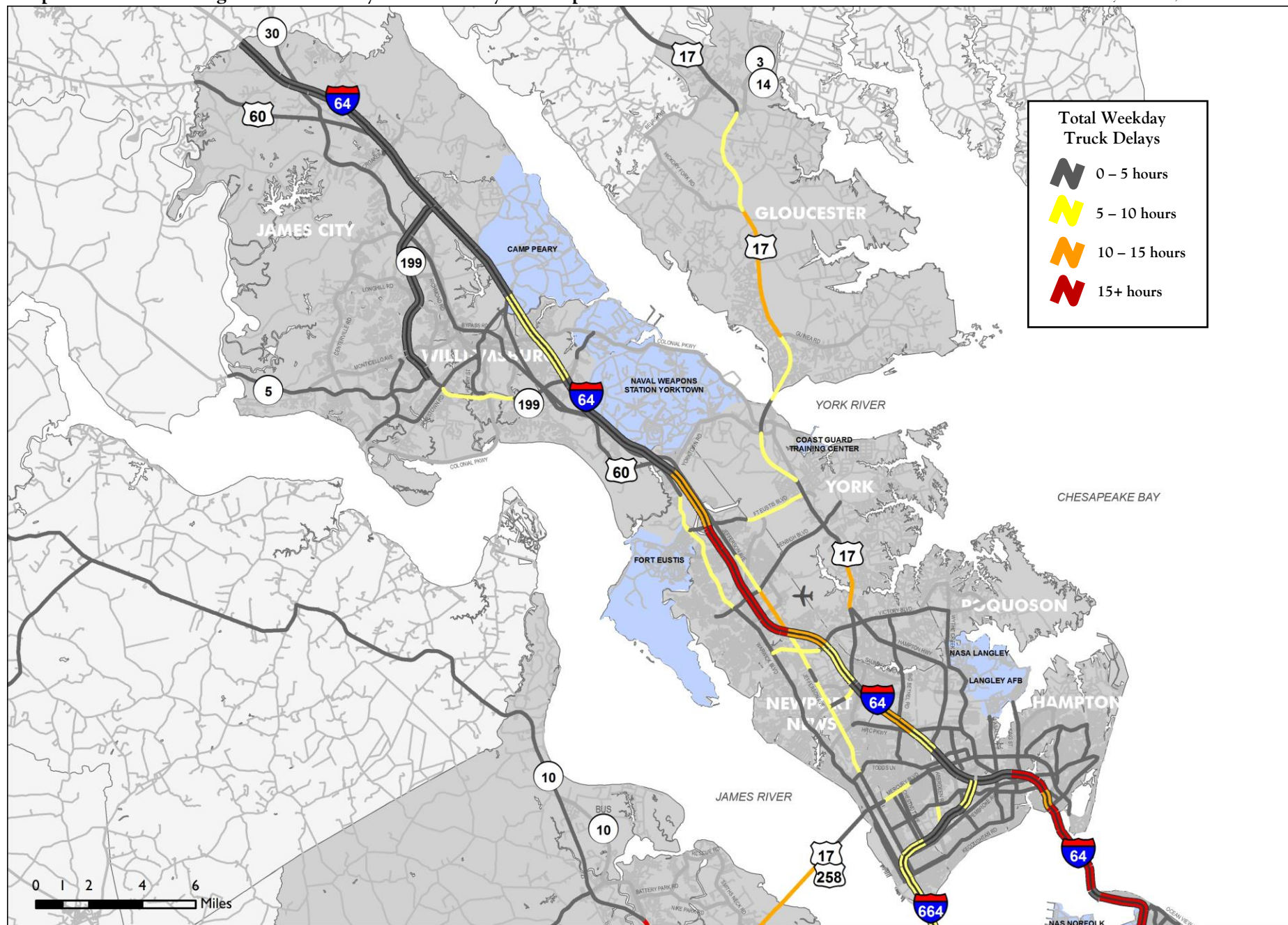
⁵ Hampton Roads Regional Freight Study: 2012 Update, HRTPO, September 2012, p. 99-103.

⁶ Ibid, p. 99-103.

⁷ Hampton Roads Regional Travel Time/Speed Study, HRTPO, April 2012.

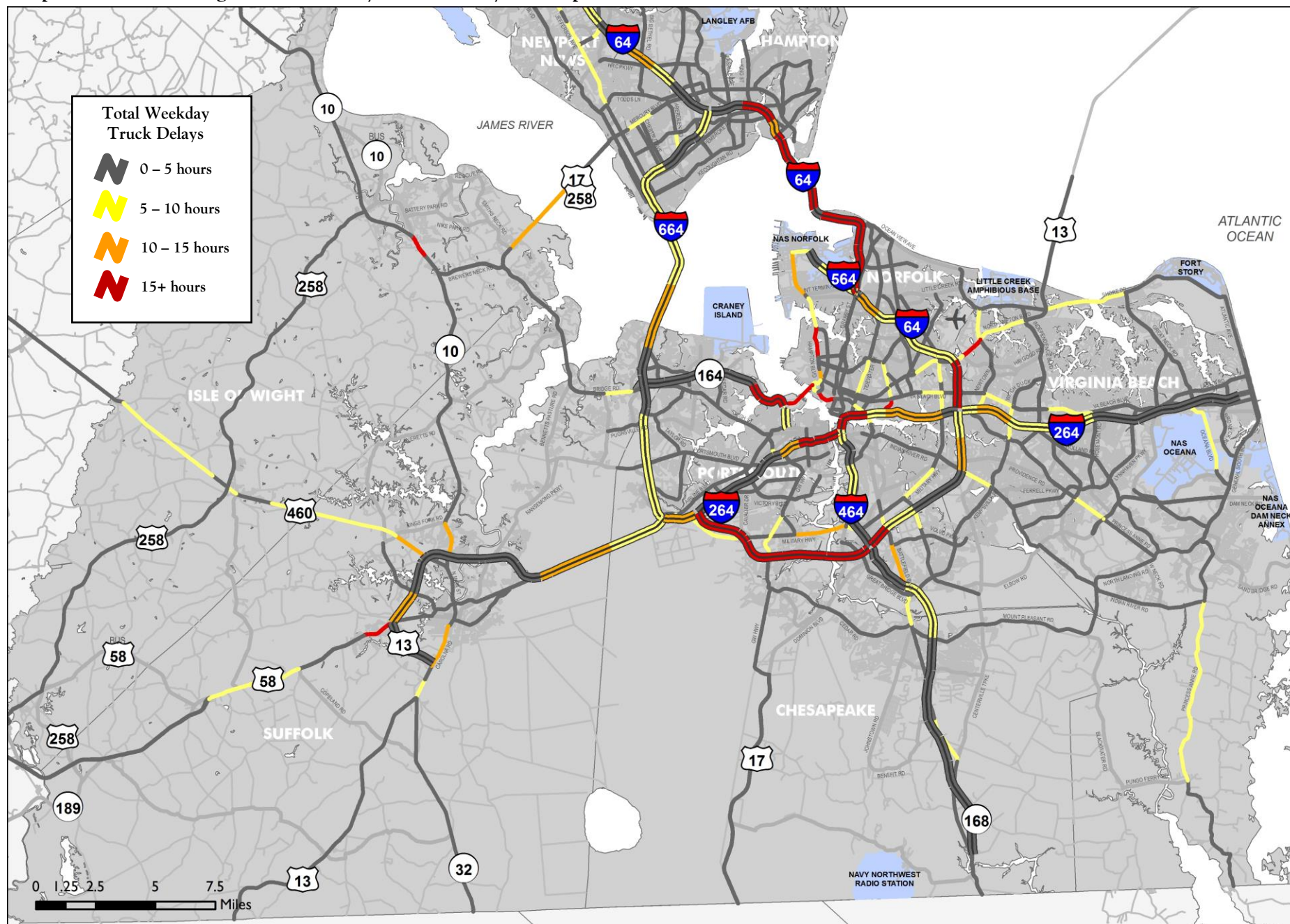
Map 1 – 2010 Existing Total Weekday Truck Delay – Hampton Roads Peninsula

Source: HRTPO analysis of INRIX, VDOT and CBBT data.



Map 2 – 2010 Existing Total Weekday Truck Delay – Hampton Roads Southside

Source: HRTPO analysis of INRIX, VDOT and CBBT data.



this 2010 existing total weekday truck delay by roadway segment. **Table 1** shows the roadway segments in Hampton Roads that have the highest 2010 existing total weekday truck delay.

Facility Name	Segment From	Segment To	Total Weekday Truck Delay (hours)
I-264/DOWNTOWN TUNNEL	EFFINGHAM ST	NORFOLK CL	51.3
I-64	I-464	GEORGE WASHINGTON HWY	39.3
I-64/HRBT	MALLORY ST	NORFOLK CL	36.2
I-64	GEORGE WASHINGTON HWY	MILITARY HWY	34.1
I-264/BERKLEY BRIDGE	I-464	WATERSIDE/CITY HALL/TIDEWATER	31.9
I-264	WATERSIDE/CITY HALL/TIDEWATER	BRAMBLETON AVE	31.5
I-64	MILITARY HWY	I-264&664	29.7
MIDTOWN TUNNEL	MLK FWY/WESTERN FREEWAY	NORFOLK CL	29.6
I-64	BATTLEFIELD BLVD	I-464	29.4
I-264/DOWNTOWN TUNNEL	PORTSMOUTH CL	I-464	28.5
ROUTE 58 (HOLLAND RD)	COVE POINT DR	SUFFOLK BYPASS	26.3
I-264	DES MOINES AVE	EFFINGHAM ST	26.0
I-64	RIP RAP RD	SETTLERS LANDING RD	22.9
HAMPTON BLVD	38TH ST	JAMESTOWN CRESCENT	21.5
WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	21.2
I-64	BAY AVE	GRANBY ST	21.2
I-64	NORTHAMPTON BLVD	I-264	21.2
BALLENTINE BLVD	I-264	VA BEACH BLVD	20.4
NORTHAMPTON BLVD	WESLEYAN DR/NORFOLK CL	DIAMOND SPRINGS RD	19.9
I-64	FORT EUSTIS BLVD	JEFFERSON AVE	18.7
MIDTOWN TUNNEL	PORTSMOUTH CL	BRAMBLETON AVE	18.4
I-64	OCEAN VIEW AVE	4TH VIEW AVE	17.8
I-64	4TH VIEW AVE	BAY AVE	17.3
BENNS CHURCH BLVD	ECL SMITHFIELD (RTE 644)	CHURCH ST S	16.7
BRAMBLETON AVE	COLLEY AVE	BOUSH ST	16.1

Table 1 – Roadway Segments with the Highest 2010 Existing Total Weekday Truck Delays

Source: HRTPO analysis of INRIX and VDOT data.

PEAK PERIOD TRUCK DELAY – 2010 EXISTING

Tables 2 and 3 show the highest 2010 existing truck delays during the AM and PM peak travel periods. Most of the truck delay occurs on Interstates throughout the region, particularly at the bridges and tunnels. Appendix A also includes the AM (6:00 am to 9:00am), midday (9:00 am to 3:00 pm), and PM (3:00 pm to 7:00 pm) peak period 2010 existing truck delay levels by roadway segment and direction.

Facility Name	Segment From	Segment To	Total Truck Delay 6:00AM-9:00AM (hours)
I-64	GEORGE WASHINGTON HWY	MILITARY HWY	18.8
I-264	DES MOINES AVE	EFFINGHAM ST	16.4
I-64	MILITARY HWY	I-264&664	15.5
I-264/DOWNTOWN TUNNEL	EFFINGHAM ST	NORFOLK CL	13.7
I-64	RIP RAP RD	SETTLERS LANDING RD	11.2
MIDTOWN TUNNEL	MLK FWY/WESTERN FREEWAY	NORFOLK CL	10.4
WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	9.5
I-264	FUTURE MLK FWY	DES MOINES AVE	8.5
I-64	I-464	GEORGE WASHINGTON HWY	7.9
I-64/HRBT	MALLORY ST	NORFOLK CL	7.8
I-264/DOWNTOWN TUNNEL	PORTSMOUTH CL	I-464	7.6
I-264	FREDERICK BLVD	FUTURE MLK FWY	7.5
MIDTOWN TUNNEL	PORTSMOUTH CL	BRAMBLETON AVE	6.5
I-64	NORTHAMPTON BLVD	I-264	5.7
I-64	NORFOLK CL	INDIAN RIVER RD	5.5

Table 2 – Roadway Segments with the Highest 2010 Existing AM Peak Period Truck Delays

Source: HRTPO analysis of INRIX and VDOT data.

Facility Name	Segment From	Segment To	Total Truck Delay 3:00PM-7:00PM (hours)
I-64	BATTLEFIELD BLVD	I-464	24.9
I-264	WATERSIDE/CITY HALL/TIDEWATER	BRAMBLETON AVE	23.6
I-64	I-464	GEORGE WASHINGTON HWY	20.3
I-264/BERKLEY BRIDGE	I-464	WATERSIDE/CITY HALL/TIDEWATER	17.7
I-64	BAY AVE	GRANBY ST	16.4
I-264/DOWNTOWN TUNNEL	EFFINGHAM ST	NORFOLK CL	16.1
I-64/HRBT	MALLORY ST	NORFOLK CL	13.2
I-64	4TH VIEW AVE	BAY AVE	12.7
I-64	MILITARY HWY	I-264&664	10.3
I-64	OCEAN VIEW AVE	4TH VIEW AVE	10.0
I-64	GEORGE WASHINGTON HWY	MILITARY HWY	10.0
I-64	NORTHAMPTON BLVD	I-264	9.9
I-264/DOWNTOWN TUNNEL	PORTSMOUTH CL	I-464	8.9
MIDTOWN TUNNEL	MLK FWY/WESTERN FREEWAY	NORFOLK CL	8.4
I-64	I-564/LITTLE CREEK RD	TIDEWATER DR	7.6

Table 3 – Roadway Segments with the Highest 2010 Existing PM Peak Period Truck Delays

Source: HRTPO analysis of INRIX and VDOT data.

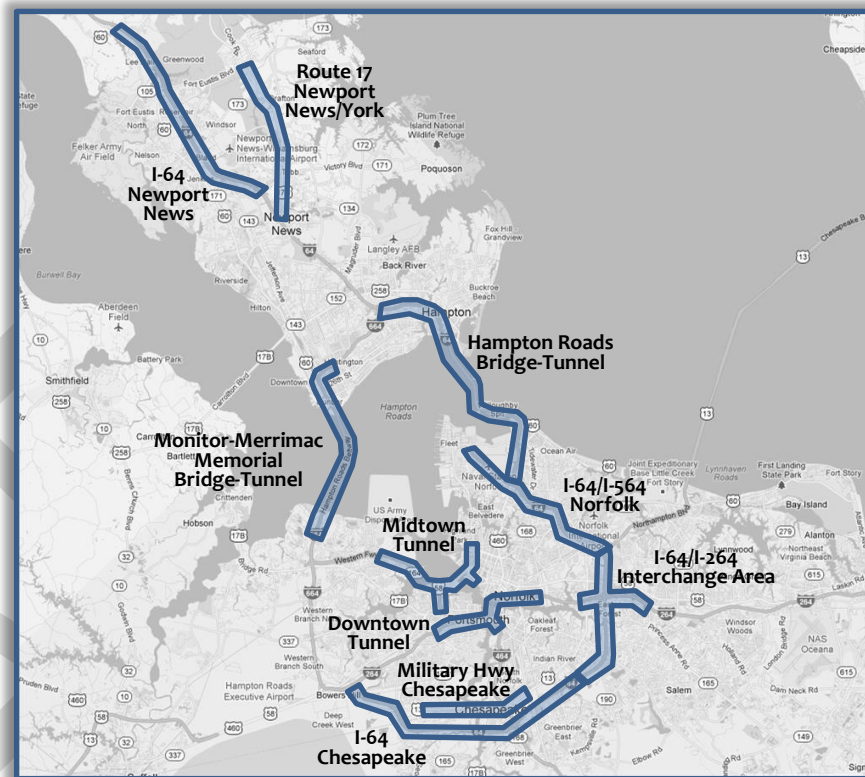
HAMPTON ROADS HIGH PROFILE CORRIDORS – 2010 EXISTING

As part of the Hampton Roads Regional Freight Study⁸, ten high profile corridors were analyzed in further detail, including the region's water crossings and their approaches (**Map 3**). Looking at delays at these ten high profile corridors (**Figure 1** and **Table 4**), the Downtown Tunnel had both the highest amount of vehicular delay and the highest amount of truck delay each weekday in 2010. Trucks are delayed a total of 205 hours each weekday at the Downtown Tunnel, resulting in annual truck congestion costs of over \$5 million according to TTI rates⁹. The Downtown Tunnel also has the highest levels of truck delay during the morning and afternoon peak travel periods.

The 2010 existing annual truck congestion costs from the 2012 Hampton Roads Regional Freight Study¹⁰ were recalculated in this 2013 study using the latest TTI rates¹¹. Annual truck congestion costs in the 2012 study included only cost of truck delay due to congestion, using TTI rates from the 2011 Urban Mobility Report¹². Whereas the costs in the 2012 study did not include the cost of wasted truck fuel due to congestion, the costs in this 2013 study do include the cost of wasted fuel.

I-64 in Chesapeake has the second highest truck delays among the ten high profile corridors at nearly 142 hours of truck delay each weekday. The Hampton Roads Bridge-Tunnel has the third highest truck delays at over 134 hours of truck delay each weekday.

Combined, trucks were delayed a total of 863 hours each weekday at these ten high profile locations in 2010, resulting in estimated annual truck congestion costs of over \$21 million.



Map 3 – High Profile Corridors in Hampton Roads – 2010 Existing
Background map source: Google.

⁸ Hampton Roads Regional Freight Study: 2012 Update, HRTPO, September 2012, p. 99-103.

⁹ 2012 Urban Mobility Report, Texas A&M Transportation Institute (TTI), 2012.

¹⁰ Hampton Roads Regional Freight Study: 2012 Update, HRTPO, September 2012, p. 99-103.

¹¹ For application of the TTI rates to this 2013 study, see **Appendix B**.

¹² 250 Working Days and Commercial Vehicle Operating Cost at \$88.12 per hour.

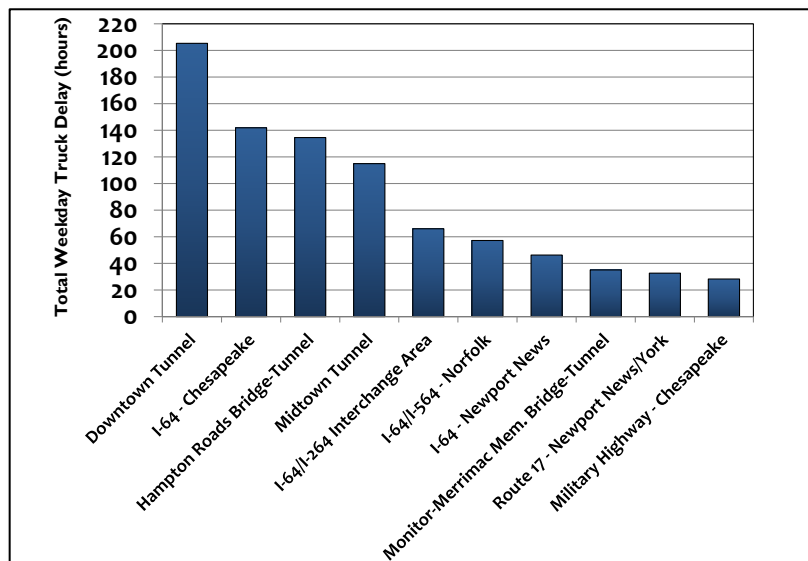


Figure 1 – 2010 Existing Total Weekday Truck Delay

Source: HRTPO analysis of INRIX and VDOT data.

High Profile Location	Total Weekday Truck Delay (hours)	Total Truck Delay Rank	Total Vehicular Delay Rank	Total Weekday Truck Delay 6:00AM-9:00AM (hours)	Total Weekday Truck Delay 9:00AM-3:00PM (hours)	Total Weekday Truck Delay 3:00PM-7:00PM (hours)
Downtown Tunnel	205.4	1	1	65.7	59.0	78.0
I-64 - Chesapeake	141.9	2	4	43.9	24.0	72.1
Hampton Roads Bridge-Tunnel	134.6	3	2	27.6	38.6	66.8
Midtown Tunnel	115.0	4	5	35.6	51.1	27.4
I-64/I-264 Interchange Area	66.0	5	3	17.6	17.6	29.7
I-64/I-564 - Norfolk	57.3	6	6	16.3	9.9	26.2
I-64 - Newport News	46.3	7	9	9.0	17.3	19.4
Monitor-Merrimac Mem. Bridge-Tunnel	35.1	8	10	4.3	15.8	14.2
Route 17 - Newport News/York	32.7	9	7	6.7	17.5	7.9
Military Highway - Chesapeake	28.3	10	8	5.8	11.6	10.4

Table 4 – 2010 Existing Weekday Truck Delay

Source: HRTPO analysis of INRIX and VDOT data.

TRUCK DELAY – 20-YEAR FORECAST

Having examined the existing truck delay, future truck delay is examined in this section. This section uses the new truck component and time-of-day capability of the regional travel demand model to forecast truck volumes and congestion to be faced by trucks in the next 20 years. It provides a 20-year forecast of truck delays within Hampton Roads so the HRTPO Board can better consider freight when making funding decisions for transportation improvements.

TRUCK DELAY METHODOLOGY

For this analysis, HRTPO staff used VDOT's Hampton Roads travel demand model to produce a 20-year forecast of truck volumes, including congested and uncongested speeds by time-of-day and roadway segment. The objective was to estimate future travel conditions for trucks in order to guide transportation planning decisions. Staff ran the model using the latest population, household, and employment forecasts (from the 2034 Long-Range Transportation Plan (LRTP)) and the 2018 roadway network (see **Appendix C** for a list of transportation projects through the year 2018 included in the 20-year forecast model run). In order that the results of the model run might be used in the scoring and selection of projects for the 2040 LRTP, a network of existing transportation infrastructure and "committed projects" was desired. Committed projects are fully funded transportation projects that are either under construction or scheduled for construction in the near future. With such a network not being available, staff used the 2018 roadway network from a recent air quality test¹³ as a surrogate. The model results estimate future truck travel conditions and identify potential areas of need for transportation improvement.

In the regional travel demand model, "trucks" are defined as heavy vehicles with three or more axles or pulling a trailer¹⁴, i.e. FHWA vehicle classification classes 6 through 13. "Trucks" included in the 2010 existing congested truck travel section above were FHWA vehicle classification classes 5 through 13, with class 5 representing 19.7% of all truck vehicle

miles of travel in Hampton Roads¹⁵. Since class 5 trucks are not included in the model, the 20-year forecast truck volumes and delays in this section may be conservative projections.

The 20-year forecast weekday truck volumes were determined using a "change method." The regional travel demand model produced weekday truck volumes for a 2009 base scenario as well as the 2018/2034 forecast scenario described above. The 2009 base scenario is based on the 2009 roadway network with 2009 population, household, and employment figures. The 2009 base scenario included tolls existing in 2009 and the

2009 Base:

Fixed Tolls on

- George P. Coleman Bridge (Route 17)
- Chesapeake Expressway (Route 168)

Facility	Car Peak	Car Off Peak	Truck Peak	Truck Off Peak
Coleman Bridge	\$2	\$2	\$3	\$3
Chesapeake Expressway	\$3	\$3	\$4	\$4

2018 Roadway Network with 2034 Population, Household, and Employment:

Fixed Tolls on

- George P. Coleman Bridge (Route 17)
- Chesapeake Expressway (Route 168)
- South Norfolk Jordan Bridge
- Midtown Tunnel
- Downtown Tunnel

Facility	Car Peak	Car Off Peak	Truck Peak	Truck Off Peak
Coleman Bridge	\$2	\$2	\$3	\$3
Chesapeake Expressway	\$3	\$3	\$4	\$4
Jordan Bridge	\$2	\$2	\$6.49	\$4.49
Midtown Tunnel	\$1.84	\$1.59	\$7.36	\$4.77
Downtown Tunnel	\$1.84	\$1.59	\$7.36	\$4.77

Cents/Mile Toll on U.S. 460

Facility	Car	Truck
U.S. 460 (new)	6.7	21.3

Table 5 – Regional Travel Demand Model Toll Assumptions

¹³ "2034 LRTP and Amended FY12-15 Project Conformity List" from the *Hampton Roads 2034 Long-Range Transportation Plan: Technical Appendices*, HRTPO, January 2012, p. 152-178.

¹⁴ DRAFT – *Hampton Roads Model Methodology Report*, Virginia Department of Transportation, V0.23, VDOT Project ID: 30681-01-02, December 2012.

¹⁵ Vehicle miles of travel estimates by vehicle classification for Hampton Roads jurisdictions, VDOT, 2011.

2018/2034 forecast scenario included tolls anticipated to be in place by 2018 (see **Table 5**). The 2009 base weekday truck volumes were subtracted from the 2018/2034 forecast weekday truck volumes to produce a “change.” This “change” in truck volume was added to the 2010 existing truck counts to produce the 20-year forecast weekday truck volumes. As discussed in the previous section, the 2010 existing truck volumes were determined using VDOT truck counts and estimates from 2009 to 2011.

For some roadways in Hampton Roads, trucks are prohibited at all times or specific times during the day due to lack of regulation, bridge limitations, or other reasons. For this analysis, roadways with existing truck restrictions were assumed to have the same restrictions for the 20-year forecast. The list of truck-restricted roadways included in the regional travel demand

model runs for this analysis is provided in **Table 6**¹⁶.

As discussed previously, congested truck travel is measured by truck delay – the difference between an “ideal” travel time for a truck on a given roadway segment and the “actual” travel time. The “ideal” travel time is determined by the length of the travel segment divided by the free flow travel speed or uncongested speed. The “actual” travel time is determined the length of the travel segment divided by the actual travel speed or congested speed. Total truck delay is determined by multiplying the delay for a given travel segment by the truck volume (number of trucks) as shown in the equation below.

$$\text{Total Truck Delay} = \left(\frac{\text{Truck Volume} \times \text{Segment Length}}{\text{Segment Actual Travel Speed}} \right) - \left(\frac{\text{Truck Volume} \times \text{Segment Length}}{\text{Segment Free Flow Travel Speed}} \right)$$

Within the regional travel demand model, average congested and uncongested travel speeds by roadway segment were produced for the 20-year weekday forecast for 4 time periods: 1) AM (6:00 am to 9:00am), midday (9:00 am to 3:00 pm), PM (3:00 pm to 6:00 pm), and night (6:00 pm to 6:00 am). These speeds were used to calculate total truck delay for each time period and summarized to produce the total weekday truck delay. It is important to note that 1) the PM period was defined as 3:00 pm to 7:00 pm for the 2010 Existing analysis from the Hampton Roads Regional Freight Study¹⁷, and 2) the 2010 Existing total weekday truck delay included only delay that occurred between the hours of 5:30 am and 8:00 pm (14.5 of 24 hours).

TOTAL WEEKDAY TRUCK DELAY – 20-YEAR FORECAST

The amount of 20-year forecast total weekday truck delay on each roadway segment is shown in **Maps 4 and 5** on pages 16-17. **Appendix D** tabulates this 20-year forecast total weekday truck delay by roadway segment. Appendix D also includes weekday truck volumes for 2010 existing and 20-year forecast by roadway segment. **Table 7** shows the roadway segments in Hampton Roads that have the highest 20-year forecast total weekday truck delay.

¹⁶ DRAFT – Hampton Roads Model Methodology Report, Virginia Department of Transportation, V0.23, VDOT Project ID: 30681-01-02, December 2012.

¹⁷ Hampton Roads Regional Freight Study: 2012 Update, HRTPO, September 2012, p. 99-103.

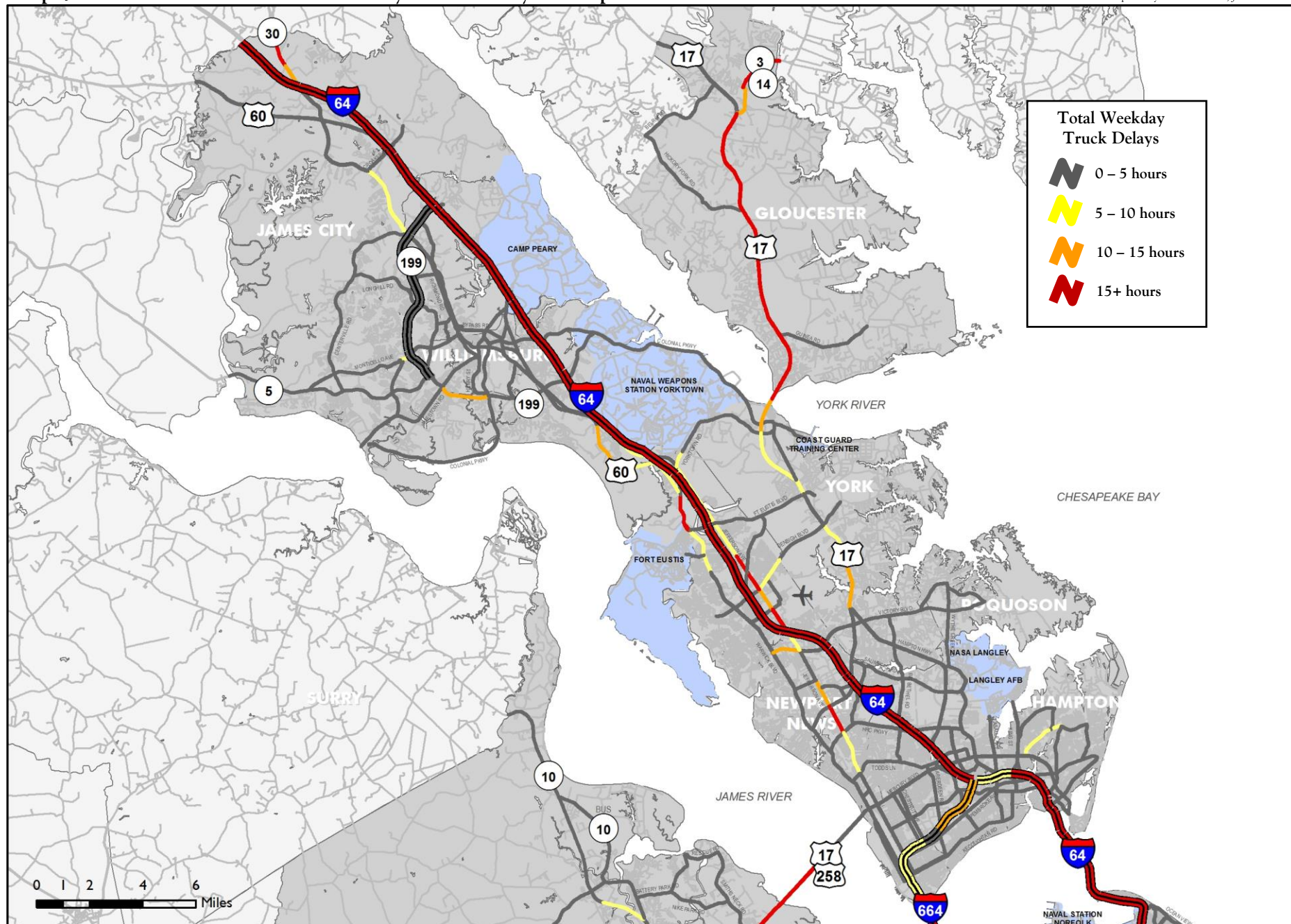
Known Restrictions due to Lack of Regulation			
Jurisdiction	Route Name	Location	Time of Restriction
Chesapeake/Virginia Beach	Elbow Road	Butts Station Road to Indian River Road	all times
Chesapeake	George Washington Hwy	Cedar Road to I-64	all times
Norfolk	Hampton Boulevard	Redgate Avenue and International Terminal Blvd	4 pm to 6 am
Norfolk	Colley Avenue	Colley Bay and Front Street	all times
Norfolk	Granby Street	East Ocean View Avenue and Main Street	4 pm to 6 am
Norfolk	Church Street	Granby St and Brambleton Avenue	4 pm to 6 am
Norfolk	Jamestown Crescent	Hampton Boulevard and Colley Bay	all times
Suffolk	Nansmond Pkwy	Wilroy Road and Chesapeake CL	all times
Suffolk	Pughsville Road	Shoulders Hill Road and Chesapeake CL	all times
Suffolk	Town Point Road	Respass Beach Road and Portsmouth CL	all times
York	Richneck Road	Newport News CL to Fort Eustis Blvd	all times
Restrictions due to Bridge Limits			
Jurisdiction	Route Name	Crossing	
Chesapeake	22ND STREET	SEABOARD AV & NS RAILWAY	
Chesapeake	BELLS MILL ROAD	MILL CREEK	
Chesapeake	FENTRESS AIRFLD RD	POCATY CREEK	
Chesapeake	GEO. WASHINGTON HW	DISMAL SWAMP CANAL	
Chesapeake	GEO. WASHINGTON HW	YADKINS RD & NS RAILWAY	
Chesapeake	LAKE DRUMMOND CAWY	LEAD DITCH	
Chesapeake	MILITARY HIGHWAY	SOUTH BR ELIZABETH RIVER	
Chesapeake	MOUNT PLEASANT ROAD	CHESAPEAKE & ALBEMARLE CANAL	
Chesapeake	ROUTE 0017	DEEP CREEK	
Isle of Wight	Carrsville Highway	Rte. 632 & CSX Railway	
Newport News	WASHINGTON AVE.	NNS & DD (PRIVATE) RWY	
Suffolk	LAKE PRINCE DRIVE	LAKE PRINCE	
Suffolk	TURLINGTON RD.	BR.KILBY CREEK-SPILLWAY	
York	MERRIMAC TRAIL	QUEENS CREEK	
Other Restrictions			
Jurisdiction	Route Name	Location	
York	Battle Rd	Old York-Hampton to GW Memorial Hwy	
Williamsburg	John Tyler	VA 199 to Jamestown Rd	
Newport News	Eastwood	Warwick to Colony	
York/James City/Williamsburg	Colonial National Historical Parkway (all)		
Newport News	41st St	Roanoke to Chestnut	
Norfolk	Robin Hood	Sewells Point to Azalea Garden	
Isle of Wight (Smithfield Town)	Main St	VA 10 Bypass to Church	

Table 6 – Truck-Restricted Roadways in Hampton Roads

Source: VDOT

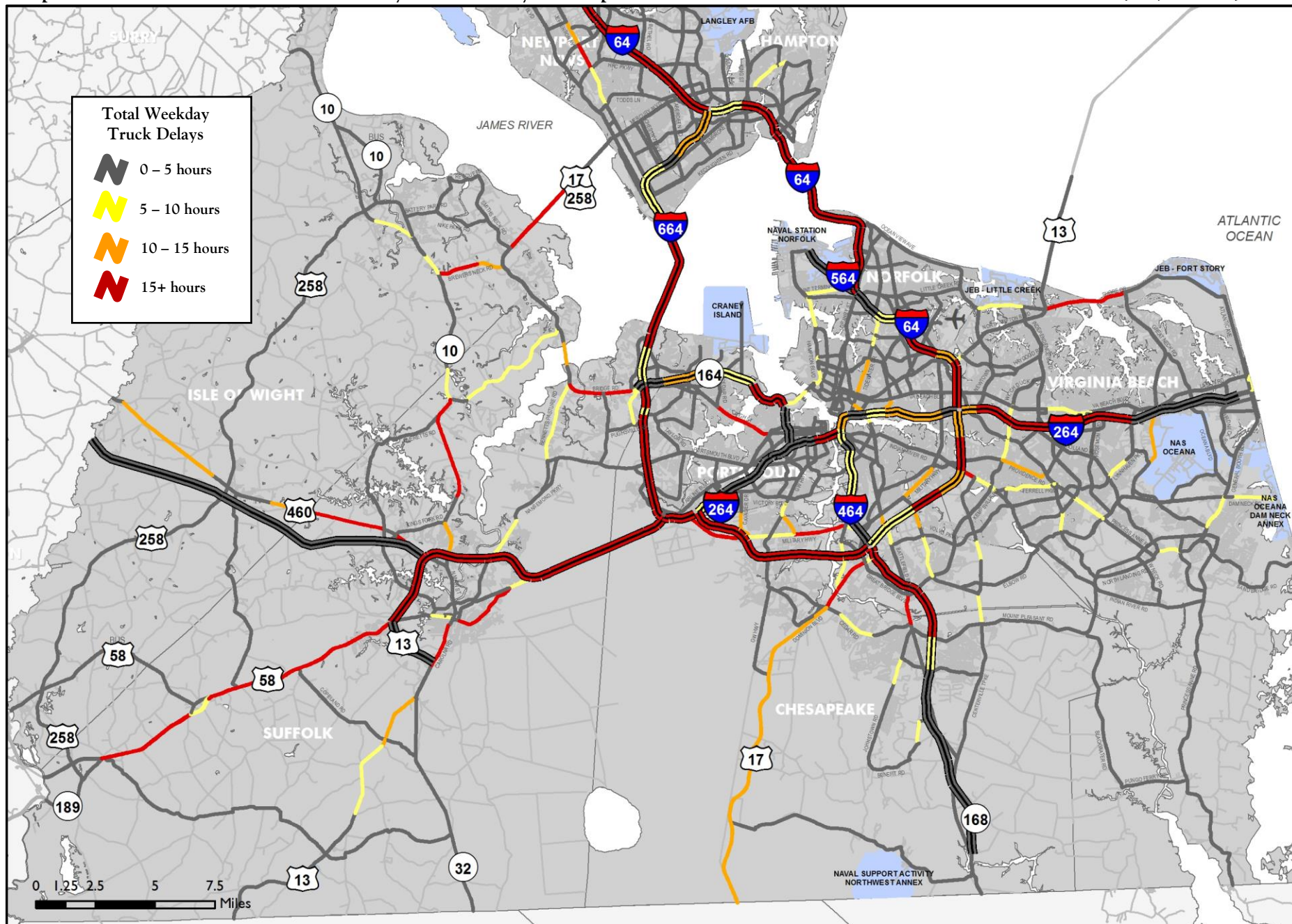
Map 4 – 20-Year Forecast Total Weekday Truck Delay – Hampton Roads Peninsula

Prepared by: HRTPO Staff, June 2013.



Map 5 – 20-Year Forecast Total Weekday Truck Delay – Hampton Roads Southside

Prepared by: HRTPO Staff, June 2013.



Facility Name	Segment From	Segment To	Total Weekday Truck Delay (hours)
I-64	FORT EUSTIS BLVD	JEFFERSON AVE	698
I-64	I-464	GEORGE WASHINGTON HWY	564
ROUTE 13/58/460	SUFFOLK BYPASS	CHESAPEAKE CL	359
I-64	RTE 199/646	RTE 143	348
I-64/HRBT	MALLORY ST	NORFOLK CL	320
I-64	YORK CL	NEWPORT NEWS CL	291
ROUTE 13/58/460	SUFFOLK CL	I-664	249
I-64	YORKTOWN RD	FORT EUSTIS BLVD	225
I-64	RTE 143	RTE 199 (EAST OF WILLIAMSBURG)	219
I-64	CROAKER RD (RTE 607)	YORK CL	194
I-64	JAMES CITY CL	RTE 199/646	169
I-64	RTE 30	CROAKER RD (RTE 607)	160
SUFFOLK BYPASS	GODWIN BLVD	WILROY RD	124
I-64	RTE 199 (EAST OF WILLIAMSBURG)	GROVE CONNECTOR	121
RTE 17	RTE 216 (GUINEA RD)	RTE 614 (HICKORY FORK RD)	120
MILITARY HWY	AIRLINE BLVD	I-64	110
I-64	GROVE CONNECTOR	JAMES CITY CL	104
I-64	GEORGE WASHINGTON HWY	MILITARY HWY	99
I-664	ROUTES 13/58/460	DOCK LANDING RD	90
RTE 17 (COLEMAN BRIDGE)	YORK CL	RTE 216 (GUINEA RD)	87
WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	84
I-64	OCEAN VIEW AVE	4TH VIEW AVE	80
CHESAPEAKE EXPRESSWAY	MT PLEASANT RD	BATTLEFIELD BLVD (N OF GREAT BRIDGE)	73
I-64	NEWPORT NEWS CL	HRC PARKWAY	72
MILITARY HWY/GILMERTON BRIDGE	CANAL DR	BAINBRIDGE BLVD	64

Table 7 – Roadway Segments with the Highest 20-Year Forecast Total Weekday Truck Delays

PEAK PERIOD TRUCK DELAY – 20-YEAR FORECAST

Appendix D also includes the AM (6:00 am to 9:00am), midday (9:00 am to 3:00 pm), and PM (3:00 pm to 7:00 pm) peak period 20-year forecast truck delay levels by roadway segment and direction. **Tables 8 and 9** show the highest 20-year forecast truck delays during the AM and PM peak travel periods. Most of the truck delay is projected to occur on Interstates throughout the region, with the highest delays along I-64 in Chesapeake across the High-Rise Bridge (I-464 to George Washington Highway) and I-64 in Newport News (Fort Eustis Boulevard to Jefferson Avenue).

Facility Name	Segment From	Segment To	Total Truck Delay 6:00AM-9:00AM (hours)
I-64	I-464	GEORGE WASHINGTON HWY	169
I-64	FORT EUSTIS BLVD	JEFFERSON AVE	146
ROUTE 13/58/460	SUFFOLK BYPASS	CHESAPEAKE CL	102
I-64/HRBT	MALLORY ST	NORFOLK CL	97
ROUTE 13/58/460	SUFFOLK CL	I-664	71
I-64	RTE 199/646	RTE 143	63
I-64	YORK CL	NEWPORT NEWS CL	57
I-64	YORKTOWN RD	FORT EUSTIS BLVD	44
I-64	RTE 143	RTE 199 (EAST OF WILLIAMSBURG)	39
I-64	CROAKER RD (RTE 607)	YORK CL	32
I-664	ROUTES 13/58/460	DOCK LANDING RD	31
MILITARY HWY	AIRLINE BLVD	I-64	28
I-64	GEORGE WASHINGTON HWY	MILITARY HWY	28
I-64	JAMES CITY CL	RTE 199/646	28
SUFFOLK BYPASS	GODWIN BLVD	WILROY RD	27

Table 8 – Roadway Segments with the Highest 20-Year Forecast AM Peak Period Truck Delays

Facility Name	Segment From	Segment To	Total Truck Delay 3:00PM-6:00PM (hours)
I-64	I-464	GEORGE WASHINGTON HWY	198
I-64	FORT EUSTIS BLVD	JEFFERSON AVE	191
ROUTE 13/58/460	SUFFOLK BYPASS	CHESAPEAKE CL	111
I-64/HRBT	MALLORY ST	NORFOLK CL	106
I-64	RTE 199/646	RTE 143	82
ROUTE 13/58/460	SUFFOLK CL	I-664	77
I-64	YORK CL	NEWPORT NEWS CL	66
I-64	YORKTOWN RD	FORT EUSTIS BLVD	60
I-64	CROAKER RD (RTE 607)	YORK CL	47
I-64	RTE 143	RTE 199 (EAST OF WILLIAMSBURG)	43
I-64	JAMES CITY CL	RTE 199/646	41
WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	39
I-664	ROUTES 13/58/460	DOCK LANDING RD	34
SUFFOLK BYPASS	GODWIN BLVD	WILROY RD	34
RTE 17	RTE 216 (GUINEA RD)	RTE 614 (HICKORY FORK RD)	33

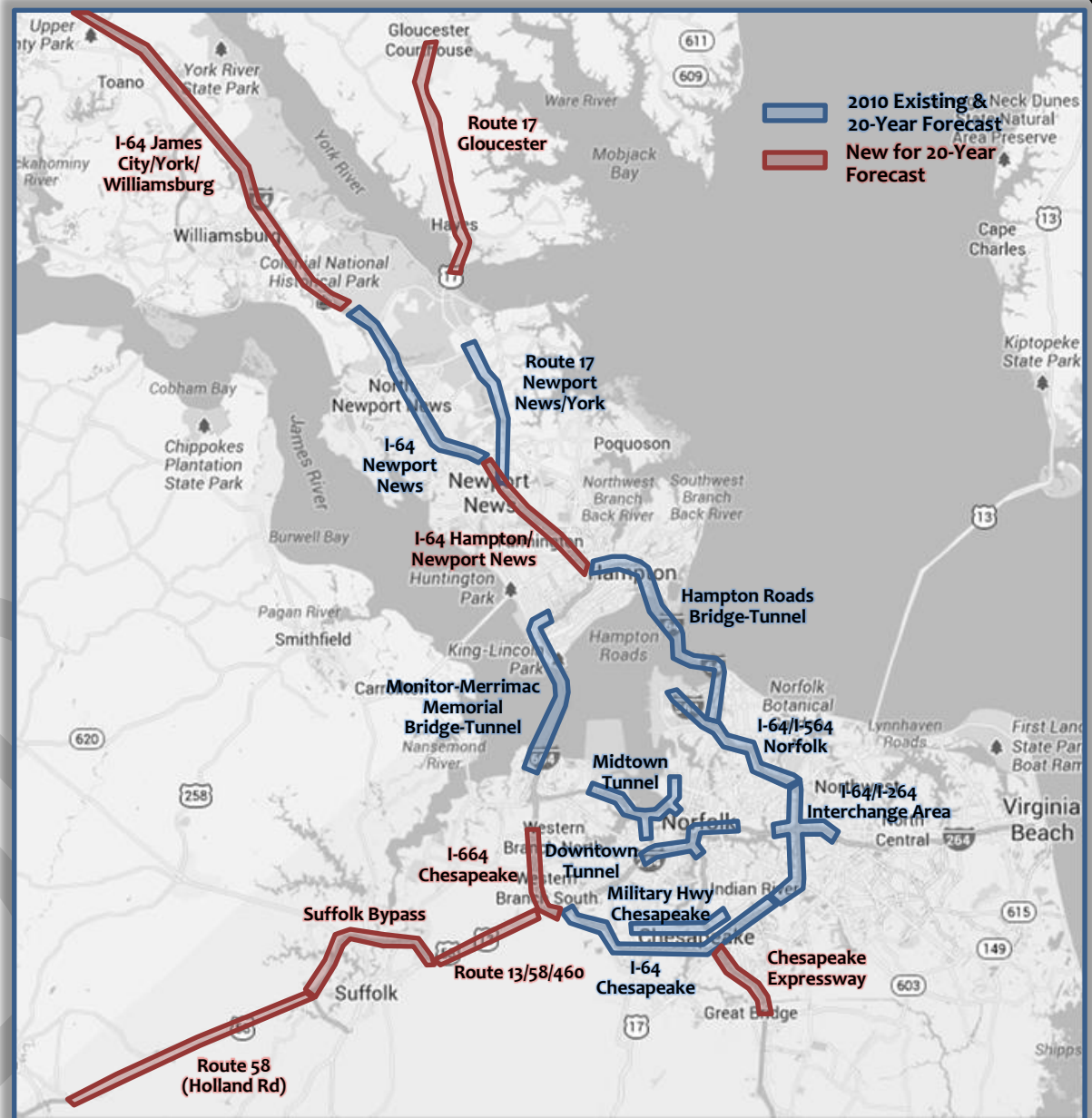
Table 9 – Roadway Segments with the Highest 20-Year Forecast PM Peak Period Truck Delays

HAMPTON ROADS HIGH PROFILE CORRIDORS – 20-YEAR FORECAST

As part of this study, eighteen high profile corridors were analyzed in further detail, including the region's water crossings and their approaches (Map 6). Ten corridors were identified in the previous section for 2010 existing delay. Eight additional corridors were included in this 20-year forecast section due to increased truck delays throughout the region over the next 20 years. Looking at delays at these eighteen high profile corridors (Figure 2 and Table 10, following page), I-64 James City/York/Williamsburg (Newport News City line to New Kent County line) is projected to have the highest amount of truck delay each weekday in the future. Trucks are projected to be delayed a total of 1,647 hours each weekday at the I-64 James City/York/Williamsburg corridor, resulting in annual truck congestion costs of over \$40 million according to TTI rates¹⁸. The I-64 James City/York/Williamsburg corridor is also projected to have the highest levels of truck delay during the morning and afternoon peak travel periods.

I-64 in Newport News (Oyster Point Road to Route 143 North) is projected to have the second highest truck delays among the eighteen high profile corridors at over 990 hours of truck delay each weekday. I-64 in Chesapeake over the High-Rise Bridge is expected to have the third highest truck delays at over 723 hours of truck delay each weekday.

Combined, trucks are projected to be delayed a total of 6,329 hours each weekday at these eighteen high profile locations in 20 years, resulting in estimated annual truck congestion costs of over \$155 million. See Appendix B for calculation details of annual truck congestion cost.



Map 6 – High Profile Corridors in Hampton Roads – 20-Year Forecast

Background map source: Google.

¹⁸ 2012 Urban Mobility Report, Texas A&M Transportation Institute (TTI), 2012.

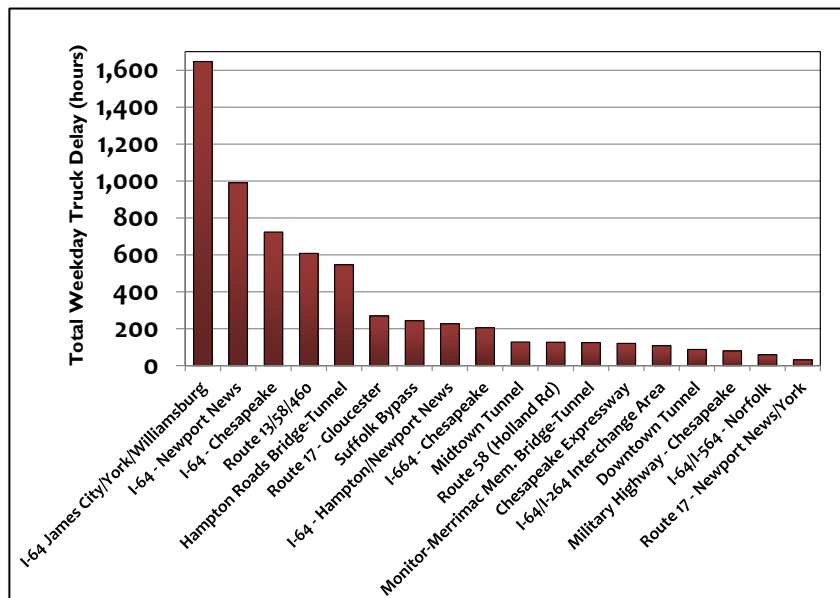


Figure 2 – 20-Year Forecast Total Weekday Truck Delay

High Profile Location	20-Year Forecast Total Weekday Truck Delay (hours)	20-Year Forecast Total Truck Delay Rank	Total Weekday Truck Delay 6:00AM-9:00AM (hours)	Total Weekday Truck Delay 9:00AM-3:00PM (hours)	Total Weekday Truck Delay 3:00PM-6:00PM (hours)	Total Weekday Truck Delay 6:00PM-6:00AM (hours)
I-64 James City/York/Williamsburg	1,647	1	287	845	367	148
I-64 - Newport News	991	2	202	453	267	70
I-64 - Chesapeake	723	3	212	228	247	36
Route 13/58/460	608	4	172	214	188	33
Hampton Roads Bridge-Tunnel	547	5	153	199	157	37
Route 17 - Gloucester	270	6	46	122	68	34
Suffolk Bypass	243	7	49	111	63	20
I-64 - Hampton/Newport News	227	8	40	112	52	23
I-664 - Chesapeake	206	9	61	59	74	11
Midtown Tunnel	128	10	30	43	50	5
Route 58 (Holland Rd)	127	11	22	66	25	15
Monitor-Merrimac Mem. Bridge-Tunnel	125	12	36	25	58	6
Chesapeake Expressway	121	13	32	45	37	7
I-64/I-264 Interchange Area	108	14	20	49	31	9
Downtown Tunnel	88	15	23	29	32	3
Military Highway - Chesapeake	80	16	24	23	28	5
I-64/I-564 - Norfolk	59	17	19	10	28	2
Route 17 - Newport News/York	32	18	7	13	10	3

Table 10 – 20-Year Forecast Weekday Truck Delay

COMPARISON OF TRUCK VOLUMES AND DELAY – 2010 EXISTING AND 20-YEAR FORECAST

This section compares weekday truck volumes and total weekday truck delay for the 2010 existing and 20-year forecast conditions presented in the preview two sections. This analysis will show where increases or decreases in weekday truck volumes and delays in Hampton Roads are expected to occur over the next 20 years.

CHANGE IN WEEKDAY TRUCK VOLUMES – 2010 EXISTING TO 20-YEAR FORECAST

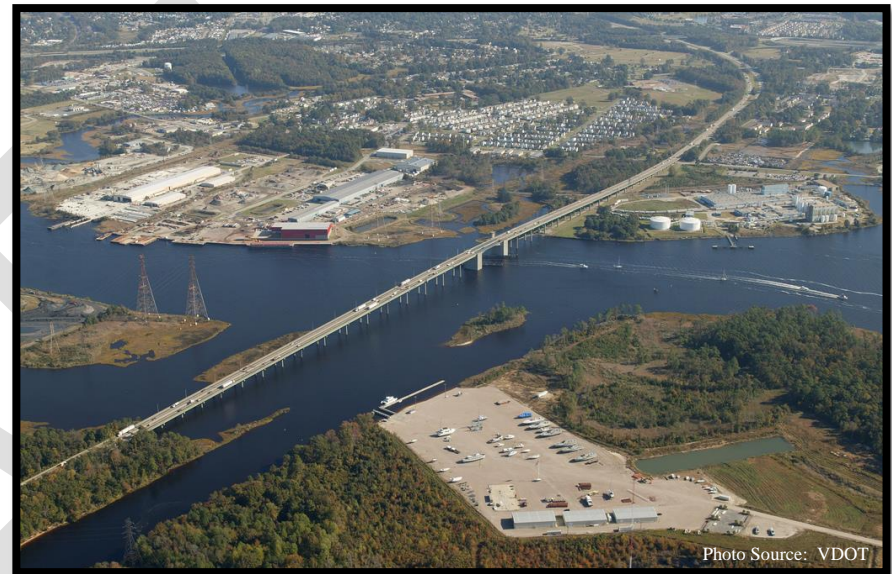
This section examines truck volume growth. The change in truck volumes from 2010 existing to the 20-year forecast is provided in **Maps 7 and 8** (following pages). In addition, Appendix D includes weekday truck volumes for 2010 existing and 20-year forecast by roadway segment.

Hampton Roads Peninsula

An increase in truck travel is forecasted for the Peninsula. Truck volumes along I-64 between I-664 in Hampton and the New Kent county line are expected to increase significantly, from 1,700 to 3,500 trucks per weekday, depending on the location. Nearly 1,100 additional trucks are projected to use I-664 in Hampton in 20 years.

Hampton Roads Southside

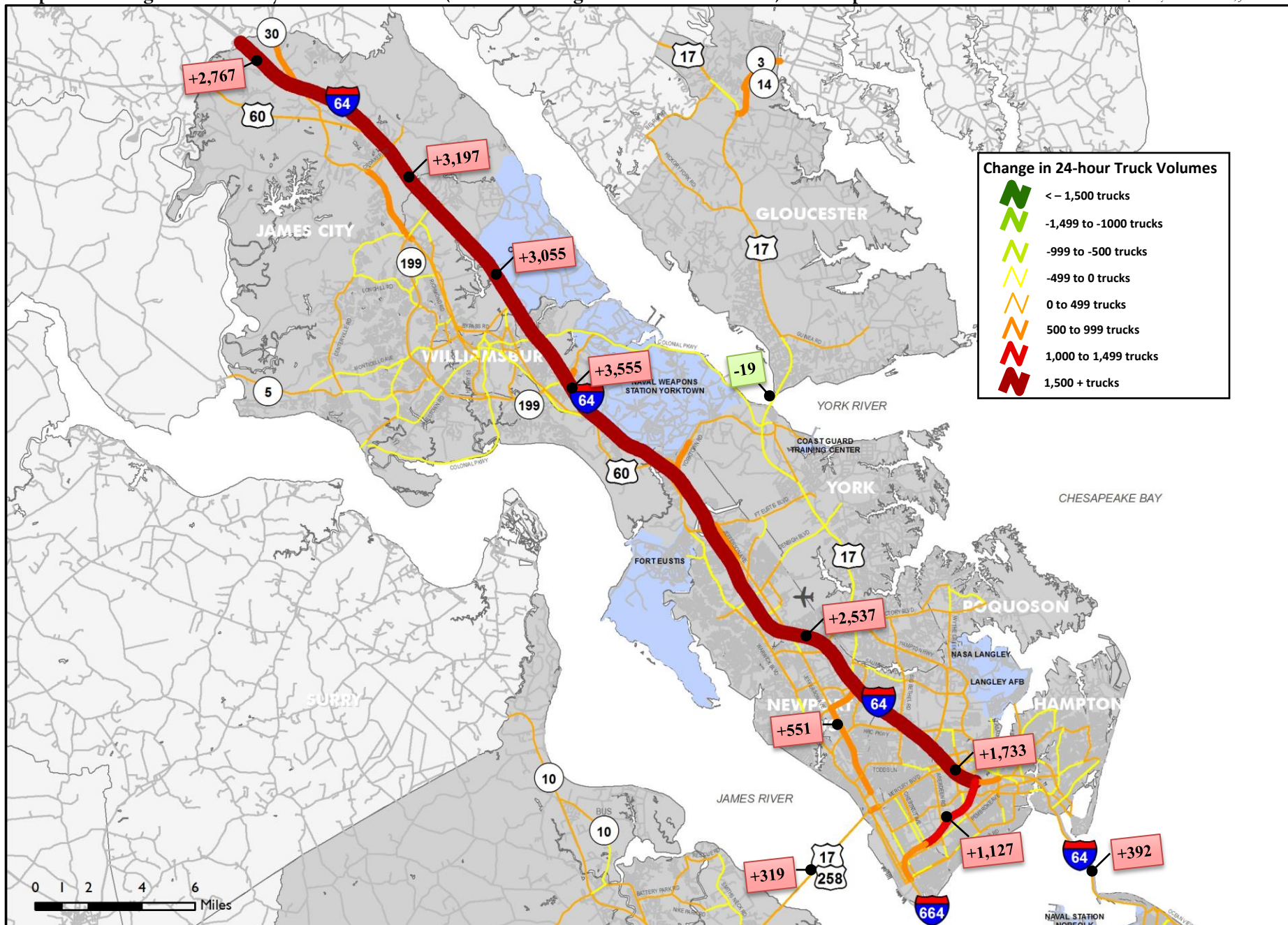
Tolls on the Downtown Tunnel and Midtown Tunnel are expected to shift truck travel on the Southside. Truck volumes along I-264 between I-64 in Norfolk and I-64/I-664 in Chesapeake (including the Downtown Tunnel) are expected to decrease significantly by approximately 500 to 2,000 trucks per weekday in 20 years. Nearly 1,500 additional trucks are projected to use I-64 in Chesapeake across the High-Rise Bridge in 20 years. Approximately 1,000 additional trucks are projected to use Military Highway across the Gilmerton Bridge each weekday in 20 years.



I-64, High-Rise Bridge over the Southern Branch of the Elizabeth River in Chesapeake, Virginia is projected to carry nearly 1,500 additional trucks each weekday in 20 years

Map 7 – Change in Weekday Truck Volumes (2010 Existing to 20-Year Forecast) – Hampton Roads Peninsula

Prepared by: HRTPO Staff, June 2013.



Prepared by: HRTPO Staff, June 2013.



COMPARISON OF HAMPTON ROADS HIGH PROFILE CORRIDORS – 2010 EXISTING AND 20-YEAR FORECAST

As discussed above, total weekday truck delays were summarized for eighteen high profile corridors in the region for 2010 existing and the 20-year forecast. Looking at the delays at these eighteen high profile corridors (Table 10, Figure 3, and Map 9), the largest increases occurred on I-64 on the Peninsula. I-64 James City/York/Williamsburg had only the 15th highest amount of weekday truck delay in 2010 (21 hours) but is projected to have the highest amount in 20 years (1,647 hours). I-64 in Newport News had the 7th highest amount of weekday truck delay in 2010 (46 hours) and is projected to have the 2nd highest amount in 20 years (991 hours). I-64 in Chesapeake across the High-Rise Bridge had the 2nd highest amount of weekday truck delay in 2010 (142 hours) and delays there are expected to increase to 723 hours in 20 years. The Downtown Tunnel, which had the highest amount of weekday truck delay in 2010 (205 hours), is projected to

High Profile Location	2010 Existing Total Weekday Truck Delay (hours)	2010 Existing Total Truck Delay Rank	20-Year Forecast Total Weekday Truck Delay (hours)	20-Year Forecast Total Truck Delay Rank
I-64 James City/York/Williamsburg	21	15	1,647	1
I-64 - Newport News	46	7	991	2
I-64 - Chesapeake	142	2	723	3
Route 13/58/460	18	16	608	4
Hampton Roads Bridge-Tunnel	135	3	547	5
Route 17 - Gloucester	31	12	270	6
Suffolk Bypass	17	17	243	7
I-64 - Hampton/Newport News	37	9	227	8
I-664 - Chesapeake	31	13	206	9
Midtown Tunnel	115	4	128	10
Route 58 (Holland Rd)	46	8	127	11
Monitor-Merrimac Mem. Bridge-Tunnel	35	10	125	12
Chesapeake Expressway	14	18	121	13
I-64/I-264 Interchange Area	66	5	108	14
Downtown Tunnel	205	1	88	15
Military Highway - Chesapeake	28	14	80	16
I-64/I-564 - Norfolk	57	6	59	17
Route 17 - Newport News/York	33	11	32	18
TOTAL	1,078		6,329	

Table 10 – Comparison of Total Weekday Truck Delay – 2010 Existing and 20-Year Forecast

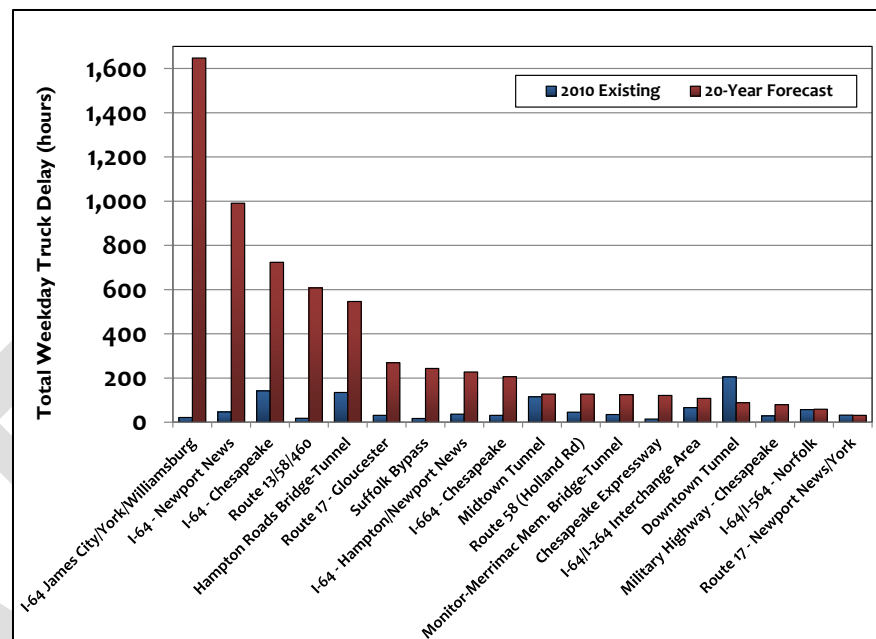


Figure 3 – Comparison of Total Weekday Truck Delay – 2010 Existing and 20-Year Forecast

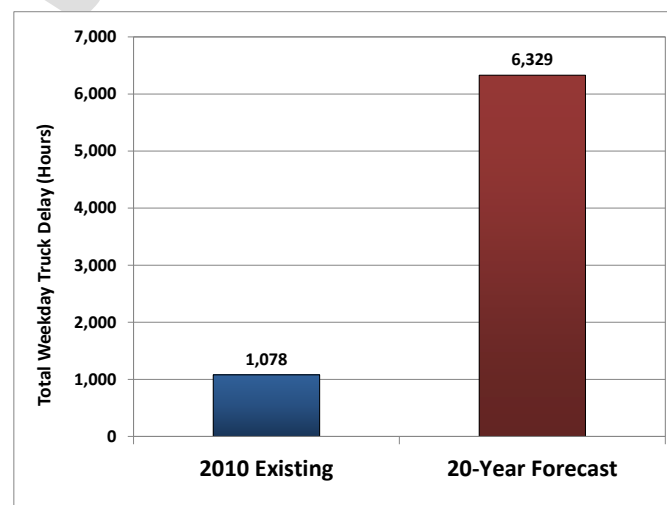


Figure 4 – Comparison of Total Weekday Truck Delay for all Eighteen High Profile Corridors – 2010 Existing and 20-Year Forecast

have less delay in 20 years (88 hours) with the implementation of tolls. The Hampton Roads Bridge-Tunnel had the 3rd highest amount of weekday truck delay in 2010 (135 hours) and delays there are expected to increase to 547 hours in 20 years.

The overall sum of weekday truck delay for all eighteen high profile corridors is projected to increase nearly six times, from 1,078 hours in 2010 to 6,329 hours in 20 years (Table 10 and Figure 4). Therefore, in constant dollars, the sum of annual truck congestion costs at the same eighteen corridors is expected to increase nearly six times, from \$26 million in 2010 to \$155 million per year in 20 years according to TTI rates¹⁹ (Figure 5).

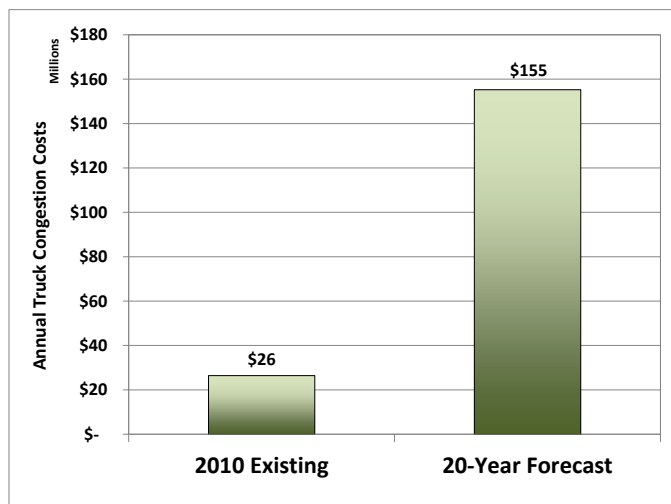
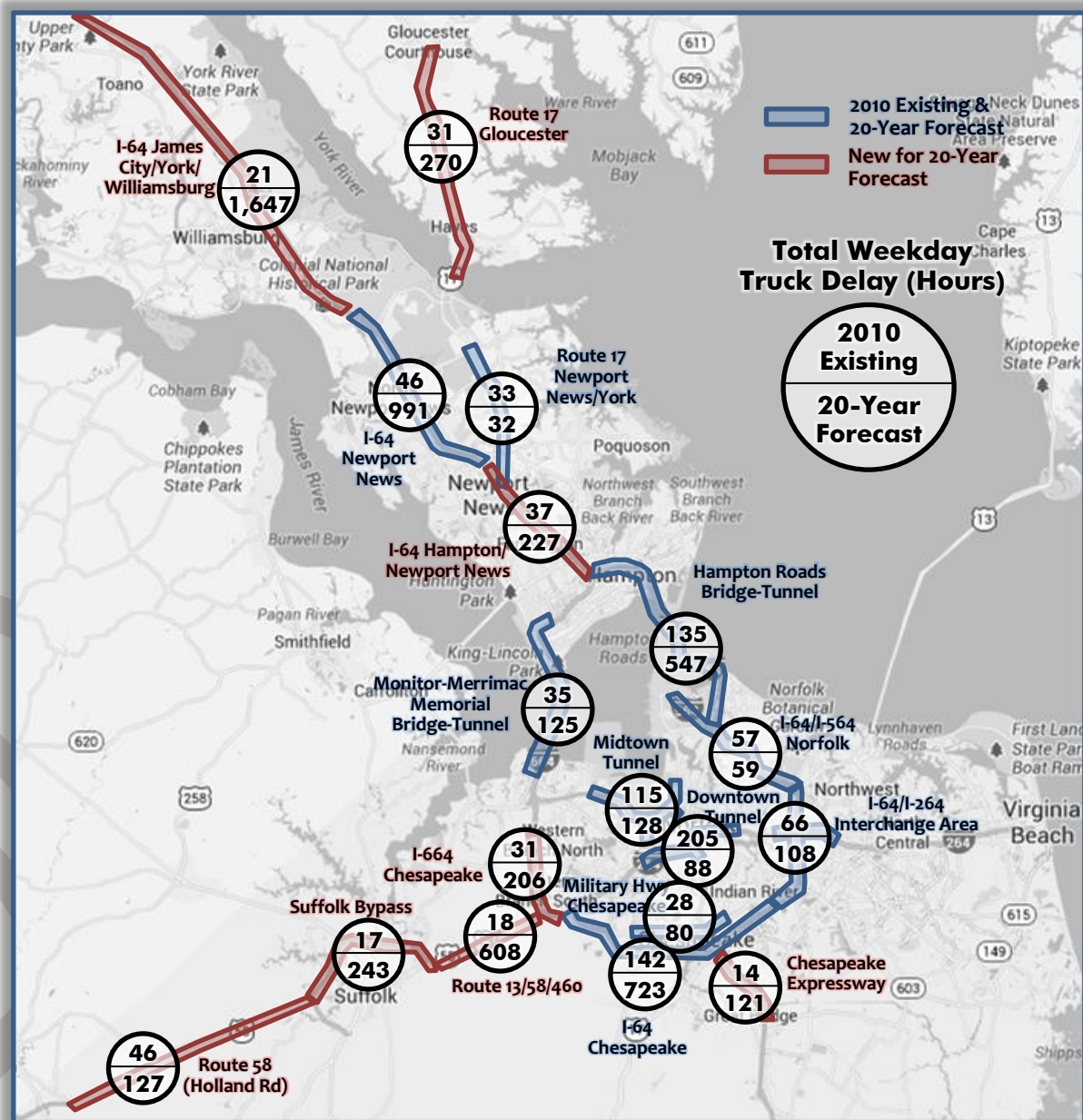


Figure 5 – Comparison of Annual Truck Congestion Costs for all Eighteen High Profile Corridors – 2010 Existing and 20-Year Forecast

¹⁹ 2012 Urban Mobility Report, Texas A&M Transportation Institute (TTI), 2012.



Map 9 – Comparison of Total Weekday Truck Delay at Eighteen High Profile Corridors

Background map source: Google.

RECOMMENDATIONS AND NEXT STEPS

RECOMMENDATIONS

Based on the analysis presented in this report, HRTPO staff prepared the following set of recommendations in order to reduce truck delays and improve future freight movement throughout Hampton Roads:

Project Prioritization

- In light of scarce financial resources, the HRTPO in 2010 developed an objective methodology to assist the HRTPO Board with determining regional transportation priorities²⁰. HRTPO's Project Prioritization Tool produces a score for each candidate project based on project utility, project viability, and economic vitality. Candidate projects are ranked and prioritized based on these scores within four categories – highway, bridge/tunnel, transit, and intermodal.

Impact on truck movement is currently incorporated into the economic vitality component of the Project Prioritization Tool for intermodal projects. In the most recent Long-Range Transportation Plan²¹, impact on truck movement was estimated for each candidate intermodal project based on freight volumes, crash data, and capacity. Based on this information, impact on truck movement was assigned into one of three categories: high, medium, or low. Incorporating truck delay results from this study into future versions of the Project Prioritization Tool will improve project scoring in this category. The HRTPO staff plans to review the economic vitality component for the highway and bridge/tunnel categories of the Project Prioritization Tool and incorporate any changes related to truck delays that are warranted.

I-64 Peninsula Widening

- Given that
 - 1) I-64 James City/York/Williamsburg (Newport News City line to New Kent County line) is projected to have the highest amount of total truck delay each weekday in 20 years (1,647 hours),

- 2) I-64 in Newport News (Oyster Point Road to Route 143 North) is projected to have the second highest truck delays among the eighteen high profile corridors at over 990 hours of truck delay each weekday, and
- 3) Weekday truck volumes are projected to increase between 2,310 to 3,555 along I-64 between Jefferson Avenue and the New Kent/James City County line in 20 years:

it is recommended that the HRTPO Board consider including the I-64 Peninsula Widening (Jefferson Avenue/Exit 255 to VA-30/Exit 227) in its next Long-Range Transportation Plan²². It is recommended that this project be divided into segments until completion as funding permits.

I-64 Southside Widening

- Given that
 - 1) I-64 in Chesapeake across the High-Rise Bridge had the 2nd highest amount of total weekday truck delay in 2010 (142 hours), and
 - 2) Truck delay on I-64 in Chesapeake across the High-Rise Bridge is expected to increase greatly in 20 years (to 723 hours per weekday) due, in part, to Downtown Tunnel and Midtown Tunnel tolls,
 - 3) Weekday truck volumes are projected to increase by 1,493 along I-64 in Chesapeake across the High-Rise Bridge:

it is recommended that the HRTPO Board consider including the I-64 Southside Widening (including the High-Rise Bridge) in its next Long-Range Transportation Plan.

NEXT STEPS

The HRTPO staff plans to update this report as conditions change in order to assist with future Long-Range Transportation Plans.

²⁰ HRTPO Program Priorities Methodology Report, HRTPO and Kimley-Horn and Associates, Inc., July 2010.

²¹ Hampton Roads 2034 Long-Range Transportation Plan, HRTPO, January 2012.

²² This recommendation would not preclude the I-64 Peninsula 8-lane future expansion contained within the I-64 Peninsula Study of I-64, from I-95 (Exit 190) in Richmond to I-664 (Exit 264) in Hampton.

APPENDICES

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Truck Delay by Location – 2010 Existing 29

Appendix B

Calculation of Annual Truck Congestion Cost 51

Appendix C

List of Transportation Projects through the Year 2018
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Appendix D

Truck Delay by Location (20-Year Forecast) & Weekday Truck
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**APPENDIX A:
TRUCK DELAY BY LOCATION – 2010 EXISTING (INTERSTATES AND NON-INTERSTATES)**

The following tables show the results from the recently published Hampton Roads Regional Freight Study²³.

²³ *Hampton Roads Regional Freight Study: 2012 Update*, HRTPO, September 2012, p. 119-139.

Appendix A: Truck Delay by Location – 2010 Existing (Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
JCC	I-64	NEW KENT CL	RTE 30	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.2	0.1
JCC	I-64	RTE 30	CROAKER RD (RTE 607)	EW	E	0.3	0.0	0.2	0.0	0.7	0.0	0.3	0.2	1.0	0.0	0.5	0.2
JCC	I-64	CROAKER RD (RTE 607)	YORK CL	EW	E	0.4	0.0	0.3	0.0	0.8	0.0	0.4	0.2	1.2	0.0	0.7	0.3
YC	I-64	JAMES CITY CL	RTE 199/646	EW	E	0.3	0.0	0.2	0.0	0.5	0.0	0.3	0.1	0.8	0.0	0.5	0.2
YC	I-64	RTE 199/646	RTE 143	EW	A	1.2	0.0	1.0	0.1	2.3	0.2	1.4	0.5	3.5	0.2	2.4	0.6
YC	I-64	RTE 143	RTE 199 (EAST OF WILLIAMSBURG)	EW	E	2.9	0.4	1.9	0.4	3.5	0.3	2.3	0.6	6.3	0.7	4.2	1.1
YC	I-64	RTE 199 (EAST OF WILLIAMSBURG)	GROVE CONNECTOR	EW	E	0.8	0.1	0.5	0.1	1.1	0.2	0.6	0.2	1.8	0.2	1.2	0.3
YC	I-64	GROVE CONNECTOR	JAMES CITY CL	EW	E	0.9	0.2	0.4	0.4	0.8	0.1	0.4	0.2	1.7	0.3	0.8	0.5
JCC	I-64	YORK CL	NEWPORT NEWS CL	EW	E	2.6	0.5	1.0	1.0	2.1	0.3	1.2	0.5	4.7	0.8	2.3	1.5
NN	I-64	JAMES CITY CL	RTE 143 (NORTH)	EW	E	0.3	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.2
NN	I-64	RTE 143 (NORTH)	YORKTOWN RD	EW	E	2.7	0.7	0.6	1.3	0.9	0.1	0.6	0.2	3.6	0.8	1.3	1.4
NN	I-64	YORKTOWN RD	FORT EUSTIS BLVD	EW	E	10.8	2.9	1.9	6.0	3.1	0.4	2.0	0.5	13.9	3.4	3.9	6.5
NN	I-64	FORT EUSTIS BLVD	JEFFERSON AVE	EW	E	7.2	1.8	3.0	2.4	11.4	1.5	4.5	5.2	18.7	3.3	7.6	7.6
NN	I-64	JEFFERSON AVE	OYSTER POINT RD	EW	E	2.3	0.7	1.4	0.2	7.7	0.9	3.1	3.6	10.1	1.6	4.6	3.8
NN	I-64	OYSTER POINT RD	J C MORRIS BLVD	EW	A	3.0	1.1	1.5	0.4	2.7	0.5	1.5	0.5	5.7	1.6	3.0	0.9
NN	I-64	J C MORRIS BLVD	HAMPTON CL	EW	E	2.3	0.7	1.2	0.3	2.5	0.4	1.2	0.8	4.7	1.1	2.4	1.1
HAM	I-64	NEWPORT NEWS CL	HRC PARKWAY	EW	E	5.6	1.8	2.9	0.7	6.2	1.0	3.0	2.0	11.8	2.8	5.9	2.7
HAM	I-64	HRC PARKWAY	MAGRUDER BLVD	EW	E	1.6	0.4	1.0	0.1	3.4	0.5	1.4	1.5	5.0	1.0	2.4	1.6
HAM	I-64	MAGRUDER BLVD	MERCURY BLVD	EW	E	2.7	0.7	1.6	0.4	2.0	0.3	0.9	0.8	4.7	0.9	2.4	1.2
HAM	I-64	MERCURY BLVD	I-664	EW	E	2.3	0.7	1.3	0.2	2.4	0.5	1.3	0.6	4.7	1.2	2.6	0.8
HAM	I-64	I-664	ARMISTEAD AVE	EW	E	1.9	0.8	0.8	0.3	0.7	0.1	0.5	0.2	2.6	0.9	1.3	0.4
HAM	I-64	ARMISTEAD AVE	RIP RAP RD	EW	E	1.5	0.7	0.4	0.4	0.5	0.1	0.3	0.1	2.0	0.8	0.7	0.5
HAM	I-64	RIP RAP RD	SETTLERS LANDING RD	EW	E	21.5	11.0	3.4	7.0	1.4	0.2	0.9	0.3	22.9	11.2	4.3	7.3
HAM	I-64	SETTLERS LANDING RD	MALLORY ST	EW	E	9.8	4.3	1.9	3.5	0.6	0.1	0.4	0.1	10.4	4.3	2.2	3.7
HAM	I-64/HRBT	MALLORY ST	NORFOLK CL	EW	A	19.0	6.3	6.9	5.4	17.2	1.5	7.7	7.8	36.2	7.8	14.6	13.2
NOR	I-64/HRBT	HAMPTON CL	OCEAN VIEW AVE	EW	A	1.0	0.3	0.4	0.3	0.9	0.1	0.4	0.4	1.9	0.4	0.8	0.7
NOR	I-64	OCEAN VIEW AVE	4TH VIEW AVE	EW	E	2.4	0.4	1.4	0.6	15.4	0.5	5.3	9.4	17.8	0.9	6.7	10.0
NOR	I-64	4TH VIEW AVE	BAY AVE	EW	E	2.8	0.2	1.3	1.3	14.6	0.1	2.8	11.5	17.3	0.4	4.0	12.7
NOR	I-64	BAY AVE	GRANBY ST	EW	E	3.8	0.6	1.5	1.7	17.4	0.3	2.3	14.7	21.2	0.9	3.7	16.4
NOR	I-64	GRANBY ST	I-564/LITTLE CREEK RD	EW	E	0.6	0.0	0.1	0.4	1.7	0.1	0.2	1.4	2.3	0.1	0.3	1.9
NOR	I-64	I-564/LITTLE CREEK RD	TIDEWATER DR	EW	E	7.3	0.3	1.0	6.0	3.4	0.7	0.9	1.6	10.7	1.0	1.9	7.6
NOR	I-64	TIDEWATER DR	CHESAPEAKE BLVD	EW	A	6.2	0.4	0.9	5.0	2.1	0.9	0.6	0.4	8.4	1.3	1.5	5.3
NOR	I-64	CHESAPEAKE BLVD	NORVIEW AVE	EW	E	6.3	0.6	0.9	4.8	1.8	0.8	0.6	0.3	8.1	1.4	1.5	5.1
NOR	I-64	NORVIEW AVE	MILITARY HWY	EW	E	4.6	0.5	0.9	3.2	2.5	1.3	0.8	0.2	7.1	1.8	1.7	3.4
NOR	I-64	MILITARY HWY	NORTHAMPTON BLVD	EW	A	4.3	0.3	1.0	2.9	2.0	1.0	0.7	0.2	6.3	1.3	1.6	3.1
NOR	I-64	NORTHAMPTON BLVD	I-264	EW	E	15.1	2.4	3.6	9.0	6.1	3.3	1.6	0.9	21.2	5.7	5.2	9.9
NOR	I-64	I-264	VA BEACH CL	EW	A	3.2	0.3	0.7	2.2	5.1	3.0	1.0	1.0	8.3	3.2	1.8	3.2
VB	I-64	NORFOLK CL	INDIAN RIVER RD	EW	A	5.4	0.4	1.3	3.7	8.7	5.0	1.7	1.7	14.0	5.5	3.0	5.4
VB	I-64	INDIAN RIVER RD	CHESAPEAKE CL	EW	A	1.4	0.3	0.7	0.4	2.2	1.3	0.7	0.2	3.6	1.6	1.3	0.6
CHES	I-64	VA BEACH CL	GREENBRIER PKWY	EW	A	1.4	0.3	0.6	0.4	2.1	1.2	0.6	0.2	3.4	1.5	1.3	0.6
CHES	I-64	GREENBRIER PKWY	BATTLEFIELD BLVD	EW	E	8.0	0.4	1.0	6.6	1.4	0.3	0.9	0.1	9.4	0.7	1.9	6.7
CHES	I-64	BATTLEFIELD BLVD	I-464	EW	A	28.8	1.0	2.9	24.8	0.6	0.1	0.4	0.1	29.4	1.0	3.3	24.9
CHES	I-64	I-464	GEORGE WASHINGTON HWY	EW	E	22.7	2.7	4.9	14.6	16.6	5.2	5.5	5.7	39.3	7.9	10.4	20.3
CHES	I-64	GEORGE WASHINGTON HWY	MILITARY HWY	EW	E	4.0	0.6	1.9	1.1	30.0	18.1	2.9	8.9	34.1	18.8	4.8	10.0
CHES	I-64	MILITARY HWY	I-264&664	EW	A	4.9	0.8	2.1	1.7	24.9	14.6	1.5	8.6	29.7	15.5	3.6	10.3
CHES	I-264	I-64&664	WCL PORTSMOUTH	EW	E	0.6	0.1	0.3	0.1	0.9	0.1	0.5	0.3	1.5	0.3	0.8	0.4
PORT	I-264	WCL PORTSMOUTH	GREENWOOD DR	EW	E	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1	0.5	0.1	0.3	0.1
PORT	I-264	GREENWOOD DR	VICTORY BLVD	EW	E	1.1	0.2	0.6	0.3	0.8	0.1	0.4	0.2	1.9	0.3	1.0	0.5
PORT	I-264	VICTORY BLVD	PORTSMOUTH BLVD	EW	A	0.9	0.2	0.4	0.3	0.7	0.1	0.4	0.1	1.6	0.3	0.8	0.4
PORT	I-264	PORTSMOUTH BLVD	FREDERICK BLVD	EW	E	3.6	2.5	0.6	0.4	1.1	0.2	0.6	0.2	4.6	2.7	1.2	0.7

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
PORT	I-264	FREDERICK BLVD	FUTURE MLK FWY	EW	E	9.7	7.5	0.9	1.3	0.4	0.1	0.3	0.1	10.1	7.5	1.1	1.4
PORT	I-264	FUTURE MLK FWY	DES MOINES AVE	EW	E	11.0	8.4	1.0	1.5	0.5	0.1	0.3	0.1	11.5	8.5	1.3	1.6
PORT	I-264	DES MOINES AVE	EFFINGHAM ST	EW	E	24.8	16.2	4.1	4.3	1.2	0.2	0.6	0.3	26.0	16.4	4.7	4.6
PORT	I-264/DOWNTOWN TUNNEL	EFFINGHAM ST	NORFOLK CL	EW	E	23.2	8.8	8.6	5.4	28.1	4.9	12.1	10.7	51.3	13.7	20.7	16.1
NOR	I-264/DOWNTOWN TUNNEL	PORTSMOUTH CL	I-464	EW	E	12.9	4.9	4.8	3.0	15.6	2.7	6.7	6.0	28.5	7.6	11.5	8.9
NOR	I-264/BERKLEY BRIDGE	I-464	WATERSIDE/CITY HALL/TIDEWATER	EW	E	3.8	1.9	1.4	0.5	28.2	3.5	7.1	17.2	31.9	5.4	8.4	17.7
NOR	I-264	WATERSIDE/CITY HALL/TIDEWATER	BRAMBLETON AVE	EW	E	1.5	0.2	0.9	0.3	30.0	2.2	4.4	23.2	31.5	2.4	5.3	23.6
NOR	I-264	BRAMBLETON AVE	BALLENTINE BLVD	EW	E	2.5	0.6	1.6	0.3	6.9	1.2	2.6	3.0	9.4	1.8	4.2	3.4
NOR	I-264	BALLENTINE BLVD	MILITARY HWY	EW	A	5.4	1.3	3.3	0.7	6.9	1.2	4.2	1.4	12.2	2.5	7.4	2.2
NOR	I-264	MILITARY HWY	I-64	EW	E	2.1	0.4	1.0	0.6	1.6	0.3	1.1	0.3	3.7	0.7	2.1	0.9
NOR	I-264	I-64	NEWTOWN RD/WCL VA. BEACH	EW	E	3.5	0.5	1.0	2.0	3.6	0.3	1.1	2.2	7.1	0.9	2.0	4.2
VB	I-264	NEWTOWN RD/ECL NORFOLK	WITCHDUCK RD	EW	E	8.0	1.0	2.2	4.7	3.6	0.6	1.4	1.6	11.6	1.6	3.6	6.3
VB	I-264	WITCHDUCK RD	INDEPENDENCE BLVD	EW	A	4.0	0.8	1.9	1.2	2.8	0.7	1.3	0.8	6.8	1.5	3.2	1.9
VB	I-264	INDEPENDENCE BLVD	ROSEMONT RD	EW	E	4.0	0.9	2.2	0.7	3.6	1.2	1.7	0.6	7.6	2.1	3.9	1.4
VB	I-264	ROSEMONT RD	LYNNHAVEN PKWY	EW	E	2.9	0.7	1.6	0.6	1.8	0.4	1.0	0.3	4.7	1.1	2.5	0.9
VB	I-264	LYNNHAVEN PKWY	LONDON BRIDGE RD	EW	E	0.9	0.2	0.5	0.2	0.7	0.1	0.4	0.1	1.6	0.4	0.9	0.3
VB	I-264	LONDON BRIDGE RD	LASKIN RD	EW	E	1.2	0.3	0.6	0.3	0.9	0.2	0.5	0.2	2.1	0.5	1.1	0.4
VB	I-264	LASKIN RD	FIRST COLONIAL RD	EW	E	0.7	0.2	0.4	0.1	0.5	0.1	0.3	0.1	1.2	0.3	0.7	0.2
VB	I-264	FIRST COLONIAL RD	S.E. PARKWAY LOCATION	EW	E	0.6	0.2	0.3	0.1	0.4	0.1	0.3	0.1	1.0	0.2	0.6	0.2
VB	I-264	S.E. PARKWAY LOCATION	BIRDNECK RD	EW	E	0.4	0.1	0.2	0.1	0.2	0.0	0.2	0.1	0.6	0.1	0.4	0.1
VB	I-264	BIRDNECK RD	PARKS AVE	EW	E	1.1	0.2	0.7	0.2	0.2	0.0	0.1	0.1	1.4	0.2	0.9	0.2
CHES	I-464	I-64	MILITARY HWY	NS	E	1.8	0.4	1.0	0.3	2.4	0.5	1.4	0.5	4.2	0.9	2.4	0.8
CHES	I-464	MILITARY HWY	FREEMAN AVE	NS	E	1.4	0.3	0.9	0.2	1.1	0.3	0.7	0.1	2.4	0.6	1.6	0.3
CHES	I-464	FREEMAN AVE	POINDEXTER ST	NS	A	3.4	0.7	1.8	0.8	2.4	0.5	1.6	0.2	5.8	1.2	3.3	1.1
CHES	I-464	POINDEXTER ST	NORFOLK CL	NS	E	2.5	1.0	0.9	0.5	1.1	0.2	0.7	0.1	3.5	1.3	1.6	0.6
NOR	I-464	CHESAPEAKE CL	SOUTH MAIN ST	NS	E	1.4	0.6	0.5	0.3	0.6	0.1	0.4	0.1	2.1	0.7	0.9	0.4
NOR	I-464	SOUTH MAIN ST	I-264	NS	E	3.6	1.9	1.1	0.5	1.5	0.4	0.7	0.3	5.1	2.3	1.8	0.8
NOR	I-564	ADMIRAL TAUSSIG BLVD	FUTURE INTERMODAL CONNECTOR	NS	A	2.7	1.9	0.1	0.0	0.3	0.0	0.1	0.1	3.0	1.9	0.2	0.1
NOR	I-564	FUTURE INTERMODAL CONNECTOR	INTERNATIONAL TERMINAL BLVD	NS	A	7.5	5.2	0.2	0.0	0.7	0.1	0.3	0.3	8.2	5.3	0.6	0.3
NOR	I-564	INTERNATIONAL TERMINAL BLVD	I-64	NS	E	3.8	2.3	0.5	0.1	1.6	0.1	0.3	1.2	5.4	2.4	0.9	1.3
CHES	I-664	I-64 & I-264	ROUTES 13/58/460	EW	E	4.0	1.2	1.5	1.2	7.0	0.8	2.6	3.3	11.0	2.0	4.1	4.5
CHES	I-664	ROUTES 13/58/460	DOCK LANDING RD	EW	E	3.1	0.9	1.4	0.7	3.3	0.5	1.4	1.3	6.4	1.4	2.9	2.0
CHES	I-664	DOCK LANDING RD	PORTSMOUTH BLVD	EW	E	3.1	0.6	1.4	1.0	2.4	0.5	1.2	0.6	5.5	1.1	2.6	1.6
CHES	I-664	PORTSMOUTH BLVD	PUGHSVILLE RD	EW	E	5.4	0.7	1.9	2.7	2.7	0.5	1.4	0.7	8.1	1.2	3.3	3.4
CHES	I-664	PUGHSVILLE RD	SUFFOLK CL	EW	E	3.0	0.3	0.8	1.9	1.2	0.2	0.7	0.3	4.2	0.5	1.5	2.1
SUF	I-664	CHESAPEAKE CL	BRIDGE RD	EW	E	2.7	0.2	0.7	1.7	1.1	0.2	0.6	0.2	3.7	0.4	1.3	1.9
SUF	I-664	BRIDGE RD	WESTERN FWY	EW	E	0.4	0.1	0.2	0.2	0.2	0.0	0.1	0.1	0.6	0.1	0.2	0.3
SUF	I-664	WESTERN FWY	COLLEGE DR	EW	A	2.6	0.4	1.1	0.9	2.3	0.4	1.3	0.5	4.8	0.8	2.4	1.5
SUF	I-664/MMMBT	COLLEGE DR	NEWPORT NEWS CL	EW	E	5.3	0.7	2.6	1.9	4.8	0.9	2.9	0.8	10.0	1.6	5.5	2.7
NN	I-664/MMMBT	SUFFOLK CL	TERMINAL AVE	EW	E	4.6	0.6	2.2	1.6	4.1	0.8	2.5	0.7	8.7	1.4	4.8	2.3
NN	I-664	TERMINAL AVE	23RD ST	EW	E	7.0	0.3	1.5	5.2	1.6	0.2	1.1	0.3	8.6	0.4	2.6	5.5
NN	I-664	23RD ST	CHESTNUT AVE	EW	E	5.4	0.6	1.6	3.2	2.4	0.3	1.4	0.5	7.8	0.9	3.0	3.7
NN	I-664	CHESTNUT AVE	HAMPTON CL	EW	E	0.4	0.1	0.3	0.0	0.4	0.0	0.2	0.1	0.8	0.1	0.5	0.1
HAM	I-664	NEWPORT NEWS CL	ABERDEEN RD	EW	E	0.8	0.2	0.5	0.1	0.7	0.1	0.4	0.1	1.4	0.2	0.9	0.2
HAM	I-664	ABERDEEN RD	POWER PLANT PKWY	EW	E	1.3	0.3	0.8	0.1	1.1	0.1	0.7	0.3	2.4	0.4	1.5	0.4
HAM	I-664	POWER PLANT PKWY	I-64	EW	E	3.1	0.6	1.7	0.7	3.9	0.8	2.2	0.7	7.0	1.4	3.9	1.4

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
						(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)	(hours)
CHES	22ND ST	LIBERTY ST	BERKLEY AVE/NORFOLK CL	EW	E	0.6	0.2	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.2
CHES	AIRLINE BLVD	I-664	JOLLIFF RD	EW	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
CHES	AIRLINE BLVD	JOLLIFF RD	PORTSMOUTH CL	EW	A	0.5	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.2
CHES	BAINBRIDGE BLVD	MILITARY HWY	FREEMAN AVE	NS	E	0.8	0.2	0.5	0.1	1.0	0.2	0.5	0.2	1.8	0.4	1.0	0.3
CHES	BAINBRIDGE BLVD	FREEMAN AVE	SWAIN AVE	NS	E	0.7	0.2	0.4	0.1	0.7	0.1	0.4	0.2	1.4	0.3	0.7	0.3
CHES	BAINBRIDGE BLVD	SWAIN AVE	CHESAPEAKE DR	NS	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
CHES	BAINBRIDGE BLVD	CHESAPEAKE DR	POINDEXTER ST	NS	A	0.6	0.2	0.3	0.1	0.6	0.1	0.3	0.2	1.2	0.2	0.7	0.3
CHES	BATTLEFIELD BLVD	NORTH CAROLINA STATE LINE	BALLAHACK RD	NS	A	0.3	0.0	0.2	0.1	0.3	0.1	0.2	0.1	0.6	0.1	0.4	0.1
CHES	BATTLEFIELD BLVD	BALLAHACK RD	GALLBUSH RD	NS	A	1.8	0.4	1.1	0.3	1.6	0.3	1.0	0.2	3.4	0.7	2.1	0.5
CHES	BATTLEFIELD BLVD	GALLBUSH RD	INDIAN CREEK RD	NS	E	2.5	0.4	1.7	0.4	1.9	0.4	1.3	0.2	4.4	0.8	3.0	0.6
CHES	BATTLEFIELD BLVD	INDIAN CREEK RD	CENTERVILLE TNPK	NS	E	1.4	0.2	1.0	0.2	1.2	0.2	0.8	0.2	2.6	0.5	1.8	0.3
CHES	BATTLEFIELD BLVD	CENTERVILLE TNPK	HILLCREST PKWY	NS	E	3.9	0.9	2.3	0.6	3.0	0.6	1.9	0.5	6.8	1.6	4.1	1.1
CHES	BATTLEFIELD BLVD	HILLCREST PKWY	PEACEFUL RD/HILLWELL RD	NS	E	0.2	0.0	0.1	0.0	0.3	0.1	0.1	0.1	0.5	0.1	0.3	0.1
CHES	BATTLEFIELD BLVD	PEACEFUL RD/HILLWELL RD	HANBURY RD	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
CHES	BATTLEFIELD BLVD	HANBURY RD	JOHNSTOWN RD	NS	E	0.9	0.2	0.4	0.3	0.9	0.2	0.4	0.3	1.8	0.5	0.7	0.6
CHES	BATTLEFIELD BLVD	JOHNSTOWN RD	CEDAR RD	NS	A	1.0	0.1	0.5	0.3	0.8	0.1	0.4	0.2	1.7	0.3	0.9	0.6
CHES	BATTLEFIELD BLVD	CEDAR RD	GREAT BRIDGE BLVD/KEMPSVILLE RD	NS	E	2.2	0.4	1.1	0.7	3.5	0.4	1.5	1.5	5.7	0.8	2.6	2.1
CHES	BATTLEFIELD BLVD	GREAT BRIDGE BLVD/KEMPSVILLE RD	GREAT BRIDGE BYPASS	NS	E	0.2	0.0	0.1	0.0	0.5	0.1	0.2	0.2	0.7	0.2	0.3	0.3
CHES	BATTLEFIELD BLVD	GREAT BRIDGE BYPASS	VOLVO PKWY	NS	E	6.6	1.1	3.7	1.6	4.8	0.6	2.4	1.8	11.4	1.7	6.1	3.4
CHES	BATTLEFIELD BLVD	VOLVO PKWY	I-64	NS	E	1.5	0.2	0.8	0.4	3.0	0.4	1.4	1.1	4.4	0.6	2.2	1.5
CHES	BATTLEFIELD BLVD	I-64	MILITARY HWY	NS	A	3.9	0.8	2.0	0.9	3.8	0.7	1.6	1.4	7.7	1.5	3.7	2.3
CHES	BATTLEFIELD BLVD	MILITARY HWY	CAMPOSTELLA RD	NS	E	1.9	0.5	0.9	0.5	1.6	0.2	0.8	0.5	3.4	0.7	1.7	1.0
CHES	BRIDGE RD	SUFFOLK CL	CHURCHLAND BLVD	EW	A	0.5	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.1	0.5	0.2
CHES	BUTTS STATION RD	KEMPSVILLE RD	ELBOW RD	EW	E	0.5	0.1	0.3	0.1	0.4	0.1	0.3	0.1	0.9	0.2	0.5	0.1
CHES	BUTTS STATION RD	ELBOW RD	CENTERVILLE TNPK	EW	E	0.5	0.1	0.2	0.3	0.2	0.0	0.1	0.0	0.7	0.1	0.3	0.3
CHES	CANAL DR	MILITARY HWY	GEORGE WASHINGTON HWY	NS	A	1.0	0.3	0.4	0.2	1.3	0.4	0.6	0.3	2.3	0.8	1.0	0.5
CHES	CEDAR RD	DOMINION BLVD	BELLS MILL RD (WEST)	EW	A	0.5	0.1	0.3	0.1	0.6	0.2	0.3	0.1	1.1	0.3	0.6	0.2
CHES	CEDAR RD	BELLS MILL RD (WEST)	BELLS MILL RD (EAST)	EW	E	1.5	0.3	0.9	0.2	1.6	0.4	0.9	0.2	3.1	0.8	1.8	0.4
CHES	CEDAR RD	BELLS MILL RD (EAST)	BRIARFIELD DR	EW	E	0.7	0.2	0.4	0.1	0.7	0.2	0.4	0.1	1.4	0.4	0.8	0.2
CHES	CEDAR RD	BRIARFIELD DR	BATTLEFIELD BLVD	EW	E	0.6	0.1	0.4	0.1	0.6	0.2	0.4	0.1	1.2	0.3	0.7	0.2
CHES	CHESAPEAKE EXPRESSWAY	GALLBUSH RD	BATTLEFIELD BLVD (NEAR INDIAN CRI	NS	E	0.5	0.1	0.3	0.1	0.4	0.1	0.3	0.0	0.9	0.2	0.6	0.1
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (NEAR INDIAN CRI	HILLCREST PKWY	NS	E	0.4	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.6	0.1	0.4	0.1
CHES	CHESAPEAKE EXPRESSWAY	HILLCREST PKWY	BATTLEFIELD BLVD (S OF GREAT BRID	NS	E	1.5	0.3	1.0	0.2	1.2	0.3	0.8	0.1	2.8	0.5	1.8	0.3
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (S OF GREAT BRID	HANBURY RD	NS	E	0.4	0.1	0.2	0.1	0.4	0.1	0.3	0.0	0.8	0.2	0.5	0.1
CHES	CHESAPEAKE EXPRESSWAY	HANBURY RD	MT PLEASANT RD	NS	E	1.5	0.4	0.9	0.2	1.0	0.2	0.7	0.1	2.5	0.6	1.6	0.3
CHES	CHESAPEAKE EXPRESSWAY	MT PLEASANT RD	BATTLEFIELD BLVD (N OF GREAT BRID	NS	E	3.5	0.9	2.1	0.4	2.6	0.6	1.6	0.3	6.1	1.5	3.8	0.8
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (N OF GREAT BRID	DOMINION BLVD	NS	E	2.5	0.6	1.5	0.3	2.3	0.5	1.5	0.3	4.8	1.1	2.9	0.6
CHES	CHESAPEAKE EXPRESSWAY	DOMINION BLVD	I-64	NS	E	1.3	0.6	0.6	0.1	2.0	0.4	1.3	0.2	3.3	1.0	1.8	0.3
CHES	DOCK LANDING RD	JOLLIFF RD	I-664	EW	E	0.0	0.0	0.0	0.0	-	-	-	-	-	-	-	-
CHES	DOCK LANDING RD	I-664	EAGLE HILL DR	EW	A	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
CHES	DOCK LANDING RD	EAGLE HILL DR	PORTSMOUTH BLVD	NS	A	0.3	0.1	0.1	0.1	0.3	0.0	0.2	0.0	0.5	0.2	0.3	0.1
CHES	GEORGE WASHINGTON HWY	NORTH CAROLINA STATE LINE	DOMINION BLVD	NS	A	3.1	0.3	1.9	0.7	1.4	0.4	0.8	0.2	4.5	0.7	2.7	0.9
CHES	GEORGE WASHINGTON HWY	DOMINION BLVD	GW HWY RELOCATED	NS	E	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0
CHES	GEORGE WASHINGTON HWY	GW HWY RELOCATED	MOSES GRANDY TR @ HINTON AVE	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
CHES	GW HWY (DEEP CREEK BRIDGE)	MOSES GRANDY TR @ HINTON AVE	MILL CREEK PKWY	NS	E	0.1	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.4	0.1	0.1	0.1
CHES	GEORGE WASHINGTON HWY	MILL CREEK PKWY	WILLOWOOD DR	NS	E	0.8	0.3	0.3	0.1	2.1	0.4	0.6	1.1	2.9	0.7	0.9	1.2
CHES	GEORGE WASHINGTON HWY	WILLOWOOD DR	I-64	NS	E	0.4	0.2	0.1	0.1	1.0	0.2	0.3	0.5	1.4	0.3	0.4	0.6
CHES	GEORGE WASHINGTON HWY	I-64	MILITARY HWY	NS	E	5.7	1.2	3.2	1.2	2.7	0.5	1.2	1.0	8.4	1.7	4.4	2.1
CHES	GEORGE WASHINGTON HWY	MILITARY HWY	CANAL DR	NS	A	2.6	0.6	1.5	0.5	3.2	0.5	1.4	1.3	5.8	1.1	2.9	1.7
CHES	GEORGE WASHINGTON HWY	CANAL DR	PORTSMOUTH CL	NS	E	1.9	0.4	1.1	0.4	2.0	0.3	1.0	0.6	3.9	0.8	2.1	1.0

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
CHES	GREAT BRIDGE BLVD	BAINBRIDGE BLVD	CAMPOSTELLA RD	EW	A	0.8	0.3	0.5	0.1	2.0	0.4	1.3	0.4	2.8	0.7	1.7	0.4
CHES	GREAT BRIDGE BLVD	CAMPOSTELLA RD	I-64	EW	E	0.7	0.2	0.4	0.0	1.7	0.3	1.0	0.3	2.3	0.6	1.4	0.3
CHES	GREAT BRIDGE BLVD	I-64	DOMINION BLVD	EW	E	0.5	0.2	0.2	0.1	2.6	0.5	1.5	0.5	3.1	0.7	1.7	0.6
CHES	GREAT BRIDGE BLVD	DOMINION BLVD	RIVERWALK PKWY WEST	EW	A	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.1	1.0	0.3	0.3	0.3
CHES	GREAT BRIDGE BLVD	RIVERWALK PKWY WEST	BATTLEFIELD BLVD	EW	A	1.8	0.6	0.6	0.6	1.8	0.7	0.6	0.5	3.6	1.3	1.2	1.1
CHES	GREENBRIER PKWY	KEMPSVILLE RD	VOLVO PKWY	NS	A	2.4	0.7	1.1	0.6	1.5	0.3	0.8	0.4	3.9	1.0	2.0	1.0
CHES	GREENBRIER PKWY	VOLVO PKWY	EDEN WAY	NS	E	0.8	0.2	0.5	0.2	0.9	0.1	0.6	0.2	1.8	0.3	1.1	0.4
CHES	GREENBRIER PKWY	EDEN WAY	I-64	NS	E	2.6	0.5	1.4	0.6	2.9	0.3	2.0	0.6	5.5	0.8	3.4	1.2
CHES	GREENBRIER PKWY	I-64	WOODLAKE DR	NS	E	2.9	0.7	1.4	0.7	0.8	0.1	0.5	0.1	3.7	0.9	1.9	0.9
CHES	GREENBRIER PKWY	WOODLAKE DR	MILITARY HWY	NS	E	0.8	0.2	0.4	0.2	0.2	0.0	0.1	0.0	1.0	0.2	0.5	0.2
CHES	INDIAN RIVER RD	NORFOLK CL	KEMP LANE	EW	E	0.2	0.1	0.1	0.0	0.3	0.1	0.2	0.0	0.6	0.1	0.3	0.1
CHES	INDIAN RIVER RD	KEMP LANE	VA BEACH CL	EW	A	1.6	0.3	0.8	0.4	1.5	0.3	0.9	0.3	3.2	0.6	1.8	0.7
CHES	KEMPSVILLE RD	BATTLEFIELD BLVD	GREENBRIER PKWY	EW	E	0.3	0.1	0.2	0.1	0.6	0.2	0.3	0.1	0.9	0.3	0.4	0.2
CHES	KEMPSVILLE RD	GREENBRIER PKWY	VOLVO PKWY	EW	E	0.7	0.2	0.4	0.1	0.7	0.2	0.4	0.2	1.4	0.4	0.8	0.3
CHES	KEMPSVILLE RD	VOLVO PKWY	VA BEACH CL	EW	E	0.3	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.6	0.1	0.3	0.1
CHES	LIBERTY ST	22ND ST	POINDEXTER RD	EW	A	0.1	0.0	0.0	0.0	-	-	-	-	-	-	-	-
CHES	MILITARY HWY	AIRLINE BLVD	I-64	EW	A	3.8	0.6	2.0	0.9	4.2	0.9	1.7	1.1	8.0	1.5	3.7	2.0
CHES	MILITARY HWY	I-64	CAVALIER BLVD	EW	E	0.6	0.2	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.4	0.2
CHES	MILITARY HWY	CAVALIER BLVD	GEORGE WASHINGTON HWY	EW	E	1.3	0.2	0.5	0.4	0.8	0.1	0.3	0.3	2.0	0.4	0.9	0.7
CHES	MILITARY HWY	GEORGE WASHINGTON HWY	CANAL DR	EW	E	1.0	0.2	0.4	0.3	1.1	0.2	0.5	0.4	2.1	0.4	1.0	0.7
CHES	MILITARY HWY/GILMERTON BRIDGE	CANAL DR	BAINBRIDGE BLVD	EW	A	9.3	2.8	3.5	2.8	4.8	0.9	2.5	1.3	14.1	3.7	6.0	4.2
CHES	MILITARY HWY	BAINBRIDGE BLVD	I-464	EW	E	1.5	0.4	0.7	0.3	4.6	0.3	1.3	3.0	6.1	0.7	2.0	3.3
CHES	MILITARY HWY	I-464	CAMPOSTELLA RD	EW	E	1.5	0.4	0.7	0.4	2.8	0.4	1.0	1.3	4.3	0.8	1.8	1.7
CHES	MILITARY HWY	CAMPOSTELLA RD	BATTLEFIELD BLVD	EW	E	0.4	0.1	0.2	0.1	1.2	0.1	0.6	0.4	1.6	0.3	0.8	0.5
CHES	MILITARY HWY	BATTLEFIELD BLVD	ALLISON DR	EW	E	1.6	0.3	1.0	0.3	1.4	0.2	0.7	0.5	3.1	0.4	1.7	0.8
CHES	MILITARY HWY	ALLISON DR	GREENBRIER PKWY	EW	A	1.3	0.2	0.8	0.3	1.1	0.1	0.6	0.4	2.4	0.3	1.3	0.6
CHES	MILITARY HWY	GREENBRIER PKWY	VA BEACH CL	EW	E	4.9	0.9	2.6	1.3	4.4	0.6	2.1	1.7	9.2	1.5	4.6	2.9
CHES	MOSES GRANDY TRAIL	GW HWY @ HINTON AVE	SHIPYARD/CEDAR RD	EW	A	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.1
CHES	MOSES GRANDY TRAIL	SHIPYARD/CEDAR RD	CEDAR RD	EW	A	0.5	0.2	0.2	0.1	1.0	0.3	0.3	0.3	1.4	0.5	0.5	0.4
CHES	MOUNT PLEASANT RD	BATTLEFIELD BLVD	CHESAPEAKE EXPRESSWAY	EW	E	0.7	0.3	0.2	0.2	0.4	0.2	0.2	0.1	1.1	0.4	0.4	0.3
CHES	MOUNT PLEASANT RD	CHESAPEAKE EXPRESSWAY	CENTERVILLE TNPK	EW	A	1.3	0.3	0.6	0.4	1.7	0.6	0.8	0.3	2.9	1.0	1.3	0.6
CHES	MOUNT PLEASANT RD	CENTERVILLE TNPK	FENTRESS AIRFIELD RD	EW	A	1.2	0.3	0.7	0.1	1.4	0.3	0.7	0.4	2.6	0.6	1.4	0.5
CHES	MOUNT PLEASANT RD	FENTRESS AIRFIELD RD	VA BEACH CL	EW	E	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.0	0.5	0.1	0.3	0.1
CHES	POINDEXTER ST	BAINBRIDGE BLVD	LIBERTY ST	EW	A	0.7	0.2	0.3	0.2	0.9	0.2	0.5	0.3	1.6	0.3	0.8	0.4
CHES	PORTSMOUTH BLVD	SUFFOLK CL	JOLLIFF RD	EW	A	0.6	0.1	0.3	0.1	1.2	0.1	0.7	0.4	1.8	0.2	1.0	0.5
CHES	PORTSMOUTH BLVD	JOLLIFF RD	I-664	EW	E	0.7	0.1	0.4	0.1	1.5	0.2	0.8	0.4	2.2	0.3	1.3	0.6
CHES	PORTSMOUTH BLVD	I-664	TAYLOR RD	EW	A	1.0	0.1	0.6	0.2	1.0	0.1	0.6	0.2	2.0	0.2	1.2	0.5
CHES	PORTSMOUTH BLVD	TAYLOR RD	PORTSMOUTH CL	EW	E	0.6	0.1	0.4	0.2	0.6	0.1	0.4	0.1	1.3	0.1	0.8	0.3
CHES	PUGHSVILLE RD	SUFFOLK CL	I-664	EW	A	0.7	0.1	0.4	0.2	0.4	0.1	0.2	0.1	1.2	0.2	0.6	0.3
CHES	PUGHSVILLE RD	I-664	TAYLOR RD	EW	A	1.2	0.4	0.5	0.3	0.3	0.0	0.2	0.1	1.5	0.4	0.6	0.4
CHES	ROUTE 13/58/460	SUFFOLK CL	I-664	EW	A	4.7	1.2	2.7	0.7	2.8	0.5	1.6	0.6	7.5	1.7	4.2	1.2
CHES	TAYLOR RD	PORTSMOUTH BLVD	ELIZABETH HARBOR RD	NS	A	0.2	0.0	0.1	0.0	0.3	0.0	0.1	0.1	0.5	0.1	0.3	0.1
CHES	TAYLOR RD	ELIZABETH HARBOR RD	BRUCE RD	NS	A	0.3	0.0	0.2	0.1	0.3	0.0	0.2	0.1	0.6	0.1	0.3	0.2
CHES	TAYLOR RD	BRUCE RD	PUGHSVILLE RD	NS	E	0.2	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.5	0.1	0.2	0.1
CHES	TAYLOR RD	PUGHSVILLE RD	WESTERN BRANCH BLVD	NS	E	0.6	0.1	0.3	0.2	0.6	0.1	0.4	0.1	1.3	0.2	0.7	0.3
CHES	TOWN POINT RD	PORTSMOUTH CL	CHURCHLAND BLVD	EW	E	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.4	0.0	0.2	0.1
CHES	VOLVO PKWY	BATTLEFIELD BLVD	GREENBRIER PKWY	EW	A	2.2	0.2	1.3	0.7	2.0	0.4	1.2	0.3	4.2	0.6	2.5	1.0
CHES	VOLVO PKWY	GREENBRIER PKWY	EDEN WAY	EW	E	0.5	0.0	0.3	0.2	0.7	0.3	0.3	0.1	1.2	0.3	0.6	0.3
CHES	VOLVO PKWY	EDEN WAY	KEMPSVILLE RD	EW	E	1.2	0.1	0.6	0.4	1.7	0.6	0.8	0.2	2.9	0.7	1.4	0.6
CHES	VOLVO PKWY	KEMPSVILLE RD	VA BEACH CL	EW	E	0.1	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.3	0.2	0.1	0.0

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
CHES	WESTERN BRANCH BLVD	CHURCHLAND BLVD	TAYLOR RD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.1	0.3	0.1
CHES	WESTERN BRANCH BLVD	TAYLOR RD	PORTSMOUTH CL	EW	E	0.2	0.0	0.1	0.1	0.3	0.0	0.2	0.1	0.5	0.1	0.3	0.1
FR	MAIN ST	SOUTH ST	SECOND AVE	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
FR	SECOND AVE	MAIN ST	MECHANIC ST	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
FR	SECOND AVE	MECHANIC ST	ISLE OF WIGHT CL	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
FR	SOUTH ST	ROUTE 58	COLLEGE DR	EW	A	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0
FR	SOUTH ST	COLLEGE DR	PRETLOW ST	EW	E	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.0
FR	SOUTH ST	PRETLOW ST	HIGH ST	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
FR	SOUTH ST	HIGH ST	MAIN ST	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
GLO	RTE 17 (COLEMAN BRIDGE)	YORK CL	RTE 216 (GUINEA RD)	NS	A	3.8	0.7	2.2	1.0	4.9	0.9	3.1	0.8	8.8	1.6	5.3	1.8
GLO	RTE 17	RTE 216 (GUINEA RD)	RTE 614 (HICKORY FORK RD)	NS	E	6.0	1.0	3.4	1.5	7.7	1.4	4.9	1.3	13.7	2.5	8.3	2.8
GLO	RTE 17	RTE 614 (HICKORY FORK RD)	RTE 17 BUS S (MAIN ST)	NS	E	4.6	0.8	2.7	1.0	4.3	0.7	2.5	1.0	8.9	1.5	5.2	1.9
GLO	RTE 17	RTE 17 BUS S (MAIN ST)	RTE 17 BUS N (MAIN ST)	NS	E	0.6	0.1	0.3	0.1	0.8	0.1	0.4	0.1	1.4	0.3	0.8	0.2
GLO	RTE 17	RTE 17 BUS N (MAIN ST)	RTE 606 (ARK RD)	NS	E	0.5	0.1	0.3	0.1	0.8	0.1	0.5	0.2	1.4	0.2	0.8	0.3
GLO	RTE 17	RTE 606 (ARK RD)	ROUTE 14	NS	E	0.7	0.2	0.4	0.1	0.7	0.1	0.4	0.1	1.4	0.3	0.8	0.2
GLO	RTE 17	ROUTE 14	ROUTES 33/198	NS	E	0.4	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.7	0.2	0.4	0.1
GLO	RTE 17	ROUTES 33/198	MIDDLESEX CL	NS	E	-	-	-	-	0.4	0.1	0.2	0.1	-	-	-	-
GLO	RTE 33	KING AND QUEEN CL	ROUTE 17	EW	E	0.4	0.1	0.2	0.1	0.5	0.2	0.2	0.1	0.9	0.2	0.4	0.3
HAM	ABERDEEN RD	PEMBROKE AVE	I-664	NS	E	0.7	0.2	0.3	0.1	1.2	0.2	0.6	0.3	1.9	0.4	1.0	0.4
HAM	ABERDEEN RD	I-664	BRIARFIELD RD	NS	A	3.5	0.9	1.9	0.7	3.4	1.0	2.0	0.3	6.9	1.9	3.9	1.0
HAM	ABERDEEN RD	BRIARFIELD RD	MERCURY BLVD	NS	A	0.8	0.3	0.4	0.1	0.8	0.2	0.4	0.2	1.6	0.4	0.8	0.3
HAM	ABERDEEN RD	MERCURY BLVD	TODDS LA	NS	E	0.3	0.1	0.1	0.1	0.4	0.1	0.2	0.1	0.7	0.2	0.4	0.2
HAM	ARMISTEAD AVE	COMMANDER SHEPPARD BLVD	HRC PARKWAY	NS	E	0.7	0.2	0.5	0.1	0.9	0.1	0.6	0.1	1.6	0.3	1.0	0.2
HAM	ARMISTEAD AVE	HRC PARKWAY	MERCURY BLVD	NS	A	0.9	0.2	0.6	0.2	0.9	0.2	0.6	0.2	1.8	0.3	1.2	0.3
HAM	ARMISTEAD AVE	MERCURY BLVD	PINE CHAPEL RD	NS	A	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
HAM	ARMISTEAD AVE	PINE CHAPEL RD	LASALLE AVE	NS	A	1.1	0.2	0.5	0.3	0.6	0.2	0.3	0.1	1.7	0.4	0.9	0.4
HAM	ARMISTEAD AVE	LA SALLE AVE	RIP RAP RD	NS	E	0.5	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.6	0.1	0.3	0.1
HAM	ARMISTEAD AVE	RIP RAP RD	PEMBROKE AVE	NS	E	0.3	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.1	0.4	0.1
HAM	ARMISTEAD AVE	PEMBROKE AVE	SETTLERS LANDING RD	NS	A	0.1	0.0	0.1	0.0	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.1
HAM	BIG BETHEL RD	TODDS LANE	HRC PKWY	NS	E	2.2	0.5	0.5	1.2	0.8	0.2	0.3	0.3	2.9	0.6	0.7	1.6
HAM	BIG BETHEL RD	HRC PKWY	THOMAS NELSON DR	NS	E	0.5	0.1	0.1	0.3	0.3	0.1	0.1	0.2	0.8	0.1	0.2	0.5
HAM	BIG BETHEL RD	THOMAS NELSON DR	SAUNDERS RD	NS	E	0.4	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.7	0.2	0.3	0.2
HAM	BIG BETHEL RD	SAUNDERS RD	SEMPLE FARM RD	NS	E	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	BIG BETHEL RD	SEMPLE FARM RD	YORK CL	NS	E	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
HAM	BRIARFIELD RD	NEWPORT NEWS CL	ABERDEEN RD	EW	E	0.5	0.2	0.2	0.1	0.4	0.1	0.2	0.1	0.9	0.3	0.4	0.2
HAM	BRIARFIELD RD	ABERDEEN RD	POWER PLANT PKWY	EW	E	0.4	0.1	0.2	0.1	0.4	0.2	0.2	0.1	0.8	0.3	0.4	0.2
HAM	CHESTNUT AVE	NEWPORT NEWS CL	MERCURY BLVD	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAM	COMMANDER SHEPPARD BLVD	ARMISTEAD AVE	NASA MAIN GATE	NS	A	0.2	0.1	0.1	0.0	0.3	0.0	0.2	0.0	0.5	0.1	0.3	0.1
HAM	COMMANDER SHEPPARD BLVD	NASA MAIN GATE	WYTHE CREEK RD	NS	A	0.4	0.1	0.2	0.1	0.6	0.2	0.3	0.1	1.1	0.3	0.6	0.2
HAM	COLISEUM DR	PINE CHAPEL RD	MERCURY BLVD	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	COLISEUM DR	MERCURY BLVD	MARCELLA DR	NS	E	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.0	0.3	0.1
HAM	COLISEUM DR	MARCELLA DR	HRC PARKWAY	NS	E	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.4	0.0	0.2	0.1
HAM	COUNTY ST	WOODLAND RD	MALLORY ST	EW	A	0.1	0.0	0.1	0.0	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.1
HAM	CUNNINGHAM DR	TODDS LA	COLISEUM DR	EW	E	0.3	0.0	0.2	0.1	0.3	0.0	0.2	0.1	0.5	0.1	0.4	0.1
HAM	CUNNINGHAM DR	COLISEUM DR	MERCURY BLVD	EW	A	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.0	0.2	0.1
HAM	FOX HILL RD	OLD BUCKROE RD	WOODLAND RD	EW	E	0.8	0.2	0.4	0.1	0.8	0.2	0.5	0.2	1.6	0.4	0.9	0.3
HAM	FOX HILL RD	WOODLAND RD	MERCURY BLVD	EW	E	1.3	0.4	0.8	0.2	1.3	0.3	0.8	0.3	2.7	0.6	1.5	0.5
HAM	HRC PARKWAY	NEWPORT NEWS CL	BIG BETHEL RD	EW	A	0.8	0.3	0.4	0.1	0.6	0.1	0.4	0.1	1.4	0.4	0.8	0.2
HAM	HRC PARKWAY	BIG BETHEL RD	I-64	EW	E	0.7	0.2	0.4	0.1	0.8	0.1	0.4	0.3	1.4	0.3	0.8	0.3
HAM	HRC PARKWAY	I-64	MAGRUDER BLVD	EW	A	0.6	0.1	0.4	0.1	0.6	0.1	0.4	0.1	1.2	0.2	0.8	0.2

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
HAM	HRC PARKWAY	MAGRUDER BLVD	COLISEUM DR	EW	E	0.7	0.1	0.5	0.1	0.4	0.1	0.3	0.1	1.1	0.2	0.7	0.1
HAM	HRC PARKWAY	COLISEUM DR	ARMISTEAD AVE	EW	E	0.5	0.1	0.4	0.0	0.3	0.1	0.2	0.0	0.8	0.2	0.5	0.1
HAM	KECOUGHTAN RD	NEWPORT NEWS CL	POWHATAN PKWY	EW	A	0.4	0.0	0.1	0.2	0.3	0.1	0.1	0.1	0.8	0.1	0.3	0.3
HAM	KECOUGHTAN RD	POWHATAN PKWY	LA SALLE AVE	EW	E	0.3	0.1	0.2	0.0	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
HAM	KECOUGHTAN RD	LA SALLE AVE	VICTORIA BLVD	NS	A	0.5	0.1	0.3	0.1	0.4	0.1	0.2	0.0	0.8	0.2	0.5	0.1
HAM	KECOUGHTAN RD	VICTORIA BLVD	SETTLERS LANDING RD	NS	E	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0
HAM	KING ST	PEMBROKE AVE	I-64 OVERPASS	NS	E	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.1
HAM	KING ST	I-64 OVERPASS	RIP RAP RD	NS	E	0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.3	0.1	0.2	0.1
HAM	KING ST	RIP RAP RD	MERCURY BLVD	NS	E	0.4	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.5	0.1	0.2	0.2
HAM	KING ST	MERCURY BLVD	OLD FOX HILL RD	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	KING ST	OLD FOX HILL RD	LITTLE BACK RIVER RD	NS	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
HAM	KING ST	LITTLE BACK RIVER RD	LAMINGTON RD	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	LAMINGTON RD	OLD BUCKINGHAM RD	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	KING ST	OLD BUCKINGHAM RD	LANGLEY AFB	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	LA SALLE AVE	KECOUGHTAN RD	VICTORIA BLVD	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1
HAM	LA SALLE AVE	VICTORIA BLVD	SETTLERS LANDING RD	NS	E	0.3	0.1	0.0	0.1	0.3	0.1	0.1	0.1	0.5	0.2	0.1	0.2
HAM	LA SALLE AVE	SETTLERS LANDING RD	PEMBROKE AVE	NS	E	0.1	0.1	0.0	0.1	0.2	0.1	0.0	0.1	0.4	0.1	0.1	0.2
HAM	LA SALLE AVE	PEMBROKE AVE	ARMISTEAD AVE	NS	E	0.4	0.2	0.0	0.2	0.8	0.2	0.2	0.4	1.3	0.4	0.2	0.6
HAM	LA SALLE AVE	ARMISTEAD AVE	MERCURY BLVD	NS	A	0.3	0.1	0.2	0.0	0.2	0.1	0.1	0.0	0.5	0.2	0.3	0.1
HAM	LA SALLE AVE	MERCURY BLVD	LANGLEY GATE	NS	E	0.4	0.1	0.2	0.0	0.3	0.1	0.2	0.1	0.7	0.2	0.4	0.1
HAM	MAGRUDER BLVD	YORK CL	SEMPLE FARM RD	NS	A	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
HAM	MAGRUDER BLVD	SEMPLE FARM RD	COMM SHEPPARD BLVD (SOUTH)	NS	E	1.4	0.4	0.7	0.3	1.2	0.4	0.7	0.1	2.6	0.8	1.4	0.4
HAM	MAGRUDER BLVD	COMM SHEPPARD BLVD (SOUTH)	HRC PARKWAY	NS	E	1.9	0.5	1.0	0.4	3.0	0.9	1.7	0.4	4.9	1.4	2.7	0.8
HAM	MAGRUDER BLVD	HRC PARKWAY	I-64	NS	E	1.2	0.3	0.6	0.2	0.6	0.1	0.4	0.1	1.8	0.5	1.0	0.3
HAM	MALLORY ST	I-64	COUNTY ST	EW	E	0.5	0.1	0.2	0.1	0.6	0.2	0.2	0.1	1.1	0.3	0.5	0.3
HAM	MALLORY ST	COUNTY ST	MERCURY BLVD	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.1
HAM	MALLORY ST	MERCURY BLVD	PEMBROKE AVE	EW	A	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.0	0.6	0.2	0.4	0.0
HAM	MELLEN ST	MERCURY BLVD	MALLORY ST	NS	A	0.2	0.0	0.2	0.0	-	-	-	-	-	-	-	-
HAM	MERCURY BLVD	NEWPORT NEWS CL	BIG BETHEL RD	EW	A	2.9	0.4	1.8	0.6	2.9	0.4	1.7	0.7	5.8	0.8	3.5	1.4
HAM	MERCURY BLVD	BIG BETHEL RD	ABERDEEN RD	EW	E	1.4	0.4	0.7	0.2	1.1	0.2	0.6	0.3	2.4	0.7	1.3	0.4
HAM	MERCURY BLVD	ABERDEEN RD	POWER PLANT PKWY	EW	E	1.5	0.2	0.9	0.3	1.0	0.2	0.6	0.2	2.5	0.4	1.5	0.5
HAM	MERCURY BLVD	POWER PLANT PKWY	I-64	EW	E	0.5	0.1	0.3	0.1	2.5	0.4	1.5	0.5	3.0	0.4	1.8	0.7
HAM	MERCURY BLVD	I-64	COLISEUM DR	EW	E	1.1	0.1	0.6	0.2	0.9	0.1	0.5	0.2	2.0	0.3	1.1	0.5
HAM	MERCURY BLVD	COLISEUM DR	CUNNINGHAM DR	EW	E	1.1	0.1	0.6	0.2	1.0	0.1	0.5	0.2	2.1	0.3	1.2	0.5
HAM	MERCURY BLVD	CUNNINGHAM DR	ARMISTEAD AVE	EW	E	0.7	0.1	0.4	0.1	0.6	0.1	0.3	0.1	1.3	0.2	0.7	0.3
HAM	MERCURY BLVD	ARMISTEAD AVE	LA SALLE AVE	EW	A	0.6	0.1	0.3	0.1	2.1	0.5	1.1	0.5	2.6	0.6	1.4	0.6
HAM	MERCURY BLVD	LA SALLE AVE	KING ST	EW	E	1.2	0.2	0.7	0.3	1.3	0.3	0.7	0.3	2.6	0.5	1.4	0.6
HAM	MERCURY BLVD	KING ST	FOX HILL RD	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.1	0.1
HAM	MERCURY BLVD	FOX HILL RD	ANDREWS BLVD	EW	A	0.3	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.6	0.2	0.3	0.1
HAM	MERCURY BLVD	ANDREWS BLVD	PEMBROKE AVE	EW	E	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
HAM	MERCURY BLVD	PEMBROKE AVE	WOODLAND RD	EW	A	0.3	0.2	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.2	0.2	0.1
HAM	MERCURY BLVD	WOODLAND RD	MALLORY ST	EW	A	0.4	0.2	0.2	0.0	0.3	0.1	0.1	0.1	0.7	0.3	0.3	0.1
HAM	MERCURY BLVD	MALLORY ST	MELLEN ST/INGALLS RD	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	OLD BUCKROE RD	PEMBROKE AVE	FOX HILL RD	NS	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2	0.0
HAM	PEMBROKE AVE	NEWPORT NEWS CL	ABERDEEN RD	EW	A	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0
HAM	PEMBROKE AVE	ABERDEEN RD	POWHATAN PKWY	EW	E	1.3	0.3	0.8	0.1	1.0	0.2	0.7	0.2	2.3	0.5	1.5	0.3
HAM	PEMBROKE AVE	POWHATAN PKWY	SETTLERS LANDING RD	EW	A	1.1	0.2	0.6	0.3	1.1	0.2	0.6	0.3	2.2	0.4	1.3	0.5
HAM	PEMBROKE AVE	SETTLERS LANDING RD	LA SALLE AVE	EW	E	0.5	0.1	0.2	0.1	0.3	0.0	0.2	0.0	0.7	0.2	0.4	0.1
HAM	PEMBROKE AVE	LA SALLE AVE	ARMISTEAD AVE	EW	A	1.1	0.3	0.5	0.2	0.9	0.2	0.6	0.2	2.0	0.4	1.1	0.4
HAM	PEMBROKE AVE	ARMISTEAD AVE	KING ST	EW	A	0.3	0.1	0.1	0.1	0.3	0.0	0.2	0.1	0.6	0.1	0.3	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
HAM	PEMBROKE AVE	KING ST	EATON ST	EW	A	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
HAM	PEMBROKE AVE	EATON ST	BARRON ST	EW	A	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
HAM	PEMBROKE AVE	BARRON ST	MERCURY BLVD	EW	A	0.3	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.1
HAM	PEMBROKE AVE	MERCURY BLVD	WOODLAND RD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
HAM	PEMBROKE AVE	WOODLAND RD	OLD BUCKROE RD	EW	A	0.5	0.1	0.2	0.1	0.5	0.1	0.3	0.1	1.0	0.2	0.5	0.2
HAM	PEMBROKE AVE	OLD BUCKROE RD	MALLORY ST	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
HAM	POWER PLANT PKWY	I-664	BRIARFIELD RD	NS	E	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
HAM	POWHATAN PKWY	KECOUGHTAN RD	PEMBROKE AVE	NS	A	0.6	0.1	0.3	0.2	0.4	0.1	0.2	0.1	1.0	0.2	0.5	0.3
HAM	POWHATAN PKWY	PEMBROKE AVE	I-664	NS	E	0.3	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.6	0.2	0.3	0.1
HAM	QUEEN ST	BRIARFIELD RD	MICHIGAN DR	EW	A	0.5	0.1	0.3	0.1	0.4	0.1	0.2	0.1	1.0	0.2	0.5	0.2
HAM	QUEEN ST	MICHIGAN DR	PEMBROKE AVE	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	ROANOKE AVE	NEWPORT NEWS CL	MERCURY BLVD	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HAM	SETTLERS LANDING RD	PEMBROKE AVE	LA SALLE AVE	EW	E	0.3	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
HAM	SETTLERS LANDING RD	LA SALLE AVE	KECOUGHTAN RD	EW	E	0.4	0.1	0.2	0.0	0.2	0.1	0.1	0.1	0.6	0.2	0.3	0.1
HAM	SETTLERS LANDING RD	KECOUGHTAN RD	ARMISTEAD AVE	EW	A	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.4	0.1	0.2	0.1
HAM	SETTLERS LANDING RD	ARMISTEAD AVE	EATON ST	EW	E	0.6	0.1	0.3	0.1	0.5	0.0	0.3	0.2	1.1	0.2	0.6	0.3
HAM	SETTLERS LANDING RD	EATON ST	TYLER ST	EW	E	0.8	0.3	0.4	0.2	0.5	0.1	0.3	0.1	1.3	0.3	0.7	0.3
HAM	SETTLERS LANDING RD	TYLER ST	I-64	EW	E	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
HAM	TODDS LA	NEWPORT NEWS CL	BIG BETHEL RD	EW	A	0.5	0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.8	0.3	0.4	0.1
HAM	TODDS LA	BIG BETHEL RD	ABERDEEN RD	EW	E	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.4	0.2
HAM	TODDS LA	ABERDEEN RD	CUNNINGHAM DR	EW	A	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.3	0.1	0.1	0.1
HAM	WOODLAND RD	I-64	COUNTY ST	NS	E	0.1	0.0	0.1	0.0	0.7	0.3	0.3	0.1	0.8	0.3	0.4	0.1
HAM	WOODLAND RD	MERCURY BLVD	PEMBROKE AVE	NS	E	0.4	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.6	0.2	0.3	0.1
HAM	WOODLAND RD	PEMBROKE AVE	FOX HILL RD	NS	A	0.5	0.1	0.2	0.1	0.5	0.1	0.2	0.1	0.9	0.3	0.4	0.2
HAM	WYTHE CREEK RD	COMMANDER SHEPPARD BLVD	POQUOSON CL	NS	E	0.6	0.1	0.3	0.1	0.4	0.1	0.3	0.1	1.0	0.2	0.6	0.2
IW	BENNS CHURCH BLVD	SUFFOLK CL	RIDDICK RD	NS	A	0.7	0.1	0.5	0.1	0.6	0.2	0.3	0.0	1.3	0.3	0.8	0.1
IW	BENNS CHURCH BLVD	RIDDICK RD	ROUTE 10 & 32 (BREWERS NECK RD)	NS	A	0.7	0.1	0.5	0.1	0.6	0.2	0.3	0.0	1.3	0.3	0.9	0.1
IW	BENNS CHURCH BLVD	ROUTE 10 & 32 (BREWERS NECK RD)	ECL SMITHFIELD (RTE 644)	NS	E	1.9	0.4	1.2	0.4	3.0	1.1	1.4	0.5	4.9	1.4	2.6	0.8
IW	BENNS CHURCH BLVD	ECL SMITHFIELD (RTE 644)	CHURCH ST S	NS	E	7.6	1.1	5.1	1.4	9.1	2.5	5.2	1.2	16.7	3.6	10.3	2.5
IW	BREWERS NECK BLVD	ROUTE 10 & 32 (BENN'S CHURCH)	RTE 670	EW	A	1.9	0.5	1.1	0.3	3.0	0.6	1.3	1.0	4.9	1.1	2.4	1.3
IW	BREWERS NECK BLVD	RTE 670	ROUTE 17	EW	A	1.1	0.3	0.6	0.1	1.7	0.3	0.7	0.6	2.8	0.6	1.4	0.7
IW	BUS RTE 58/BUS RTE 258	FRANKLIN CL	JAMESTOWN LN (RTE 691)	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
IW	BUS RTE 58/BUS RTE 258	JAMESTOWN LN (RTE 691)	ROUTE 258	EW	E	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.4	0.1	0.2	0.1
IW	CARROLLTON BLVD	SUFFOLK CL	WEST END CHUCKATUCK BRIDGE	NS	E	0.3	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
IW	CARROLLTON BLVD	WEST END CHUCKATUCK BRIDGE	ROUTE 258	NS	E	0.9	0.2	0.5	0.2	0.7	0.1	0.4	0.1	1.6	0.3	0.9	0.3
IW	CARROLLTON BLVD	ROUTE 258	SMITH'S NECK RD	NS	A	0.8	0.2	0.4	0.1	0.8	0.1	0.4	0.3	1.6	0.3	0.9	0.4
IW	CARROLLTON BLVD/JAMES RIVER BR	SMITH'S NECK RD	NEWPORT NEWS CL	NS	A	5.2	1.3	3.0	0.7	5.5	0.7	2.9	1.8	10.7	2.1	5.9	2.5
IW	ROUTE 10 (OLD STAGE HWY)	BUS RTE 10	IW/SURRY CL	NS	E	1.6	0.3	0.9	0.3	1.5	0.3	0.8	0.3	3.0	0.6	1.7	0.6
IW	ROUTE 10 BYPASS	CHURCH ST S	FAIRWAY DR	NS	A	0.5	0.1	0.2	0.2	0.6	0.1	0.3	0.2	1.1	0.2	0.5	0.4
IW	ROUTE 10 BYPASS	FAIRWAY DR	MAIN ST	NS	A	0.2	0.0	0.1	0.1	0.3	0.0	0.1	0.1	0.5	0.1	0.2	0.2
IW	ROUTE 10 BYPASS	MAIN ST	NCL SMITHFIELD	NS	E	0.3	0.0	0.2	0.0	0.4	0.1	0.2	0.1	0.7	0.2	0.4	0.1
IW	ROUTE 10 BYPASS	NCL SMITHFIELD	BUS RTE 10	NS	A	0.8	0.1	0.5	0.1	1.2	0.4	0.6	0.2	1.9	0.5	1.0	0.3
IW	ROUTE 258	CARRSVILLE HWY (BUS RTE 58)	BURDETTE RD (W RTE 619)	EW	E	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.4	0.2
IW	ROUTE 258	BURDETTE RD (W RTE 619)	RIVER RUN TRAIL (W RTE 614)	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
IW	ROUTE 258	RIVER RUN TRAIL (W RTE 614)	BLACKWATER RD (RTE 603)	EW	A	0.6	0.1	0.4	0.1	0.7	0.1	0.3	0.2	1.3	0.3	0.7	0.3
IW	ROUTE 258	BLACKWATER RD (RTE 603)	WCL WINDSOR	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IW	ROUTE 258	WCL WINDSOR	ROUTE 460	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IW	ROUTE 258	ROUTE 460	ECL WINDSOR	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
IW	ROUTE 258	ECL WINDSOR	COURT ST NORTH (RTE 610)	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
IW	ROUTE 258	COURT ST NORTH (RTE 610)	IRON MINE SPRINGS RD (RTE 605)	EW	E	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.4	0.2

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
IW	ROUTE 258	IRON MINE SPRINGS RD (RTE 605)	CENTRAL HILL RD (W RTE 637)	EW	E	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.5	0.1	0.2	0.1
IW	ROUTE 258	CENTRAL HILL RD (W RTE 637)	SCOTTS FACTORY RD (RTE 620)	EW	A	0.5	0.2	0.3	0.1	0.5	0.1	0.2	0.1	1.0	0.3	0.5	0.2
IW	ROUTE 258	SCOTTS FACTORY RD (RTE 620)	WCL SMITHFIELD	EW	A	0.4	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.5	0.2
IW	ROUTE 258/N MAIN ST	WCL SMITHFIELD	RTE 10 BYPASS	EW	A	0.6	0.1	0.4	0.1	0.5	0.1	0.3	0.1	1.1	0.2	0.6	0.2
IW	ROUTE 460	SOUTHAMPTON CL	FIRETOWER RD (RTE 644)	EW	E	0.3	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
IW	ROUTE 460	FIRETOWER RD (RTE 644)	WCL WINDSOR	EW	E	3.5	0.7	2.0	0.7	1.9	0.4	0.9	0.5	5.4	1.0	2.9	1.1
IW	ROUTE 460	WCL WINDSOR	ROUTE 258	EW	E	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
IW	ROUTE 460	ROUTE 258	COURT ST (RTE 610)	EW	E	3.0	0.6	1.5	0.8	5.4	1.1	2.6	1.5	8.3	1.7	4.1	2.3
IW	ROUTE 460	COURT ST (RTE 610)	ECL WINDSOR	EW	E	1.0	0.1	0.6	0.3	0.8	0.1	0.4	0.2	1.8	0.2	1.0	0.5
IW	ROUTE 460	ECL WINDSOR	SUFFOLK CL	EW	E	3.1	0.4	1.7	0.9	2.5	0.4	1.4	0.6	5.6	0.8	3.1	1.5
JCC	BARHAMSVILLE RD	I-64	ROUTE 60	NS	A	1.2	0.2	0.6	0.3	1.4	0.3	0.8	0.3	2.6	0.5	1.4	0.6
JCC	IRONBOUND RD/NEWS RD	JOHN TYLER HWY	MONTICELLO AVE	NS	E	0.9	0.1	0.4	0.4	0.8	0.1	0.4	0.3	1.7	0.2	0.8	0.7
JCC	IRONBOUND RD/SANDY BAY RD	JAMESTOWN RD	JOHN TYLER HWY	NS	E	0.6	0.1	0.3	0.2	0.5	0.1	0.3	0.2	1.2	0.2	0.6	0.3
JCC	JAMESTOWN RD	COLONIAL PARKWAY (RTE 359)	SANDY BAY RD (RTE 681)	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
JCC	JAMESTOWN RD	SANDY BAY RD (RTE 681)	NECK-O-LAND RD	EW	A	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
JCC	JAMESTOWN RD	NECK-O-LAND RD	WILLIAMSBURG CL	EW	A	0.4	0.0	0.2	0.1	0.3	0.1	0.1	0.1	0.6	0.1	0.3	0.2
JCC	JOHN TYLER HWY	CHARLES CITY CL	MONTICELLO AVE	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
JCC	JOHN TYLER HWY	MONTICELLO AVE	CENTERVILLE RD (RTE 614)	EW	E	0.2	0.0	0.2	0.0	0.4	0.1	0.2	0.1	0.6	0.1	0.4	0.1
JCC	JOHN TYLER HWY	CENTERVILLE RD (RTE 614)	IRONBOUND RD (RTE 615)	EW	E	1.0	0.4	0.4	0.2	0.8	0.1	0.5	0.2	1.8	0.5	0.9	0.3
JCC	JOHN TYLER HWY	IRONBOUND RD (RTE 615)	STANLEY DR (RTE 712)	EW	A	1.0	0.3	0.6	0.1	1.0	0.2	0.6	0.2	2.0	0.4	1.2	0.4
JCC	JOHN TYLER HWY	STANLEY DR (RTE 712)	ROUTE 199	EW	E	0.2	0.1	0.1	0.0	0.3	0.0	0.2	0.1	0.5	0.1	0.3	0.1
JCC	MERRIMAC TRL	NEWPORT NEWS CL @ I-64	YORK CL (SOUTH OF GROVE INT)	EW	E	2.3	1.2	0.8	0.2	2.3	0.4	0.9	1.0	4.6	1.6	1.7	1.2
JCC	MERRIMAC TRL	YORK CL @ ROUTE 199	PENNIMAN RD (YORK CL)	EW	E	0.5	0.2	0.2	0.1	0.7	0.1	0.4	0.2	1.2	0.3	0.6	0.3
JCC	OLD STAGE RD	NEW KENT CL	BARNES RD (RTE 601 S)	EW	E	1.1	0.3	0.5	0.3	1.1	0.1	0.4	0.5	2.2	0.4	0.9	0.8
JCC	OLD STAGE RD	BARNES RD (RTE 601 S)	I-64	EW	E	1.0	0.4	0.3	0.3	0.5	0.1	0.2	0.2	1.5	0.4	0.5	0.5
JCC	POCAHONTAS TRL	WILLIAMSBURG CL	YORK CL @ 199	EW	E	0.4	0.0	0.2	0.1	0.5	0.1	0.3	0.1	0.9	0.1	0.5	0.2
JCC	POCAHONTAS TRL	YORK CL	BASF RD	EW	A	1.6	0.4	0.8	0.3	1.5	0.4	0.7	0.4	3.1	0.7	1.5	0.7
JCC	POCAHONTAS TRL	BASF RD	NEWPORT NEWS CL	EW	E	0.7	0.2	0.4	0.1	0.6	0.2	0.3	0.2	1.3	0.3	0.6	0.3
JCC	RICHMOND RD	ROUTE 199	OLDE TOWNE RD (RTE 658)	EW	E	1.0	0.1	0.7	0.2	1.0	0.1	0.6	0.2	2.0	0.2	1.3	0.4
JCC	RICHMOND RD	OLDE TOWNE RD (RTE 658)	WILLIAMSBURG CL	EW	E	0.4	0.1	0.2	0.1	0.6	0.1	0.3	0.1	0.9	0.1	0.6	0.2
JCC	ROCHAMBEAU DR	ROUTE 60	CROAKER RD (RTE 607)	EW	A	0.7	0.2	0.3	0.2	0.5	0.2	0.2	0.1	1.1	0.4	0.5	0.3
JCC	ROUTE 199	YORK CL	RICHMOND RD (RTE 60)	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
JCC	ROUTE 199	RICHMOND RD (RTE 60)	LONGHILL RD (RTE 612)	EW	E	0.3	0.0	0.2	0.0	0.4	0.1	0.3	0.0	0.7	0.1	0.5	0.1
JCC	ROUTE 199	LONGHILL RD (RTE 612)	MONTICELLO AVE (RTE 321)	EW	A	0.4	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.5	0.1
JCC	ROUTE 199	MONTICELLO AVE (RTE 321)	JOHN TYLER HWY (RTE 5)	EW	E	1.4	0.3	0.9	0.2	0.6	0.1	0.4	0.1	2.0	0.4	1.3	0.3
JCC	ROUTE 199	JOHN TYLER HWY (RTE 5)	WILLIAMSBURG CL	EW	E	0.9	0.2	0.5	0.2	0.8	0.2	0.4	0.1	1.7	0.3	0.9	0.4
JCC	ROUTE 199	WILLIAMSBURG CL	HENRY ST/COLONIAL PKWY	EW	A	3.1	0.5	1.7	0.8	3.6	0.9	2.0	0.6	6.7	1.4	3.8	1.4
JCC	ROUTE 199	HENRY ST/COLONIAL PKWY	MOUNTS BAY RD/QUARTERPATH RD	EW	E	1.9	0.3	1.2	0.4	3.5	0.8	1.8	0.8	5.4	1.1	3.0	1.2
JCC	ROUTE 199	MOUNTS BAY RD/QUARTERPATH RD	RTE 60/RTE 143/YORK CL	EW	E	0.7	0.1	0.5	0.1	2.0	0.5	1.1	0.4	2.7	0.5	1.5	0.6
JCC	ROUTE 60	NEW KENT CL	ROUTE 30	EW	E	0.4	0.1	0.2	0.1	0.4	0.1	0.3	0.1	0.8	0.1	0.5	0.2
JCC	ROUTE 60	ROUTE 30	CROAKER RD (RTE 607)	EW	E	1.4	0.3	0.8	0.2	1.3	0.2	0.8	0.3	2.7	0.6	1.6	0.5
JCC	ROUTE 60	CROAKER RD (RTE 607)	LIGHTFOOT RD (RTE 646)	EW	A	2.8	0.5	1.8	0.4	2.2	0.4	1.3	0.5	5.0	0.9	3.1	1.0
JCC	ROUTE 60	LIGHTFOOT RD (RTE 646)	CENTERVILLE RD (RTE 614)	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
JCC	ROUTE 60	CENTERVILLE RD (RTE 614)	ROUTE 199	EW	A	0.9	0.3	0.4	0.2	1.2	0.2	0.7	0.2	2.1	0.5	1.2	0.4
NN	23RD/25TH CONNECTOR	HUNTINGTON AVE	JEFFERSON AVE	EW	A	0.1	0.0	0.1	0.0					0.1	0.0	0.1	0.0
NN	25TH ST	JEFFERSON AVE	26TH ST	EW	E	0.8	0.1	0.6	0.1					0.8	0.1	0.6	0.1
NN	25TH ST	26TH ST	HAMPTON CL	EW	E	0.3	0.0	0.1	0.1	0.3	0.1	0.1	0.1	0.5	0.1	0.3	0.1
NN	26TH ST	25TH ST	ROANOKE AVE	EW	A					0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
NN	26TH ST	ROANOKE AVE	JEFFERSON AVE	EW	A					0.4	0.1	0.3	0.1	0.4	0.1	0.3	0.1
NN	26TH ST	JEFFERSON AVE	WARWICK BLVD	EW	E					0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.0

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
NN	26TH ST	WARWICK BLVD	HUNTINGTON AVE	EW	E					0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
NN	39TH ST	HUNTINGTON AVE	MADISON AVE	EW	A	0.3	0.1	0.2	0.0	0.3	0.0	0.2	0.0	0.6	0.1	0.4	0.1
NN	39TH ST	MADISON AVE	HAMPTON CL	EW	A	0.5	0.1	0.3	0.1	0.4	0.1	0.3	0.0	0.9	0.2	0.6	0.1
NN	BRIARFIELD RD	JEFFERSON AVE	HAMPTON CL	EW	A	0.7	0.2	0.3	0.1	0.6	0.1	0.3	0.1	1.2	0.3	0.7	0.3
NN	CHESTNUT AVE	39TH ST	44TH ST	NS	E	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.0
NN	CHESTNUT AVE	44TH ST	BRIARFIELD RD	NS	E	0.5	0.1	0.3	0.1	0.9	0.1	0.7	0.1	1.3	0.2	1.0	0.2
NN	CHESTNUT AVE	BRIARFIELD RD	HAMPTON CL	NS	A	0.4	0.0	0.3	0.1	0.6	0.0	0.5	0.1	1.0	0.1	0.8	0.2
NN	DENBIGH BLVD	LUCAS CREEK RD	WARWICK BLVD	EW	E	0.7	0.3	0.3	0.1	0.6	0.2	0.2	0.2	1.3	0.5	0.5	0.3
NN	DENBIGH BLVD	WARWICK BLVD	JEFFERSON AVE	EW	A	1.4	0.4	0.8	0.2	1.8	0.4	1.0	0.4	3.2	0.8	1.7	0.6
NN	DENBIGH BLVD	JEFFERSON AVE	YORK CL	EW	E	0.9	0.1	0.5	0.2	0.9	0.1	0.6	0.1	1.8	0.3	1.1	0.4
NN	FORT EUSTIS BLVD	WARWICK BLVD	I-64	EW	A	0.9	0.2	0.4	0.3	1.1	0.3	0.6	0.1	2.0	0.5	1.0	0.4
NN	FORT EUSTIS BLVD	I-64	JEFFERSON AVE	EW	E	0.3	0.1	0.2	0.1	0.5	0.1	0.3	0.1	0.9	0.2	0.5	0.1
NN	FORT EUSTIS BLVD	JEFFERSON AVE	.54 MILES EAST OF RTE 143	EW	A	0.7	0.2	0.4	0.1	0.7	0.2	0.4	0.1	1.4	0.4	0.8	0.2
NN	FORT EUSTIS BLVD	.54 MILES EAST OF RTE 143	YORK CL	EW	A	0.9	0.2	0.5	0.2	1.0	0.3	0.6	0.1	1.9	0.5	1.1	0.3
NN	HRC PARKWAY	HARPERSVILLE RD	HAMPTON CL	EW	A	0.4	0.1	0.2	0.0	0.3	0.1	0.2	0.0	0.7	0.2	0.4	0.1
NN	HUNTINGTON AVE	71ST ST	39TH ST	NS	A					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NN	HUNTINGTON AVE	39TH ST	26TH ST	NS	E					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NN	J CLYDE MORRIS BLVD	JEFFERSON AVE	THIMBLE SHOALS BLVD	NS	E	2.1	0.5	1.1	0.5	2.6	0.7	1.4	0.5	4.8	1.3	2.5	1.0
NN	J CLYDE MORRIS BLVD	THIMBLE SHOALS BLVD	I-64	NS	E	3.3	0.8	1.6	0.8	4.0	1.1	2.1	0.7	7.3	2.0	3.7	1.5
NN	J CLYDE MORRIS BLVD	I-64	HARPERSVILLE RD	NS	E	1.5	0.2	0.9	0.4	0.8	0.3	0.4	0.1	2.3	0.5	1.2	0.6
NN	J CLYDE MORRIS BLVD	HARPERSVILLE RD	YORK CL	NS	E	0.3	0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.6	0.1	0.3	0.1
NN	JEFFERSON AVE	JAMES CITY CL	YORKTOWN RD	NS	E	0.5	0.2	0.2	0.1	0.5	0.1	0.2	0.2	1.0	0.3	0.5	0.2
NN	JEFFERSON AVE	YORKTOWN RD	FORT EUSTIS BLVD	NS	A	0.7	0.3	0.4	0.1	0.7	0.2	0.4	0.2	1.4	0.5	0.7	0.2
NN	JEFFERSON AVE	FORT EUSTIS BLVD	FUTURE ATKINSON BLVD	NS	E	2.2	0.6	1.1	0.4	2.0	0.5	1.0	0.5	4.2	1.1	2.1	0.9
NN	JEFFERSON AVE	FUTURE ATKINSON BLVD	DENBIGH BLVD	NS	A	3.5	0.9	1.8	0.7	3.1	0.8	1.5	0.7	6.5	1.7	3.3	1.4
NN	JEFFERSON AVE	DENBIGH BLVD	BLAND BLVD	NS	A	6.2	0.9	2.8	2.4	4.5	0.8	2.7	0.9	10.8	1.7	5.6	3.3
NN	JEFFERSON AVE	BLAND BLVD	I-64	NS	A	5.7	0.8	2.7	1.9	4.9	0.9	2.5	1.4	10.6	1.7	5.1	3.4
NN	JEFFERSON AVE	I-64	OYSTER POINT RD	NS	E	3.7	0.7	2.0	0.9	4.1	0.8	2.3	1.0	7.8	1.5	4.3	1.9
NN	JEFFERSON AVE	OYSTER POINT RD	MUELLER LA	NS	E	3.1	0.7	1.5	0.9	3.6	1.0	1.9	0.6	6.6	1.7	3.4	1.5
NN	JEFFERSON AVE	MUELLER LA	MIDDLE GROUND BLVD	NS	E	1.7	0.4	0.8	0.5	1.9	0.5	1.0	0.4	3.6	0.9	1.8	0.8
NN	JEFFERSON AVE	MIDDLE GROUND BLVD	J CLYDE MORRIS BLVD	NS	A	4.2	0.8	1.9	1.5	5.1	1.6	2.6	0.8	9.3	2.4	4.5	2.3
NN	JEFFERSON AVE	J CLYDE MORRIS BLVD	HARPERSVILLE RD	NS	E	5.0	1.0	2.7	1.1	3.5	1.1	1.8	0.6	8.5	2.1	4.5	1.8
NN	JEFFERSON AVE	HARPERSVILLE RD	MAIN ST	NS	A	4.3	1.0	2.3	1.0	3.9	1.2	2.0	0.7	8.2	2.2	4.2	1.7
NN	JEFFERSON AVE	MAIN ST	CENTER AVE	NS	E	1.4	0.3	0.8	0.3	2.1	0.5	1.0	0.5	3.5	0.9	1.8	0.8
NN	JEFFERSON AVE	CENTER AVE	MERCURY BLVD	NS	E	1.3	0.2	0.7	0.4	1.7	0.4	1.0	0.3	3.0	0.6	1.7	0.7
NN	JEFFERSON AVE	MERCURY BLVD	BRIARFIELD RD	NS	E	2.1	0.6	1.1	0.4	1.5	0.3	0.8	0.3	3.6	0.9	2.0	0.7
NN	JEFFERSON AVE	BRIARFIELD RD	41ST ST	NS	E	1.8	0.6	0.9	0.3	0.9	0.3	0.5	0.2	2.7	0.8	1.4	0.5
NN	JEFFERSON AVE	41ST ST	35TH ST	NS	E	0.3	0.1	0.1	0.1	0.4	0.1	0.2	0.1	0.6	0.2	0.3	0.1
NN	JEFFERSON AVE	35TH ST	25TH ST	NS	A	0.9	0.2	0.4	0.2	2.5	0.2	1.8	0.5	3.4	0.4	2.2	0.7
NN	MAIN ST	WARWICK BLVD	JEFFERSON AVE	EW	A	0.3	0.0	0.2	0.1	0.3	0.1	0.1	0.1	0.5	0.1	0.3	0.1
NN	MAIN ST	JEFFERSON AVE	HAMPTON CL	EW	A	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0
NN	MERCURY BLVD/JAMES RIVER BR	ISLE OF WIGHT CL	RIVER RD	EW	A	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.1	0.2	0.1
NN	MERCURY BLVD	RIVER RD	WARWICK BLVD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.1	0.2	0.1
NN	MERCURY BLVD	WARWICK BLVD	JEFFERSON AVE	EW	E	0.4	0.1	0.3	0.1	0.5	0.1	0.2	0.1	0.9	0.2	0.5	0.2
NN	MERCURY BLVD	JEFFERSON AVE	HAMPTON CL	EW	E	0.5	0.1	0.3	0.1	0.5	0.1	0.3	0.1	1.0	0.1	0.6	0.2
NN	OYSTER POINT RD	WARWICK BLVD	JEFFERSON AVE	EW	A	3.2	0.5	1.6	1.0	3.3	0.7	1.5	1.1	6.5	1.2	3.2	2.0
NN	OYSTER POINT RD	JEFFERSON AVE	CANON BLVD	EW	A	1.5	0.4	0.7	0.3	3.6	0.4	1.1	2.1	5.1	0.8	1.8	2.5
NN	OYSTER POINT RD	CANON BLVD	I-64	EW	E	0.4	0.1	0.2	0.1	2.5	0.3	0.7	1.4	2.8	0.5	0.9	1.4
NN	ROANOKE AVE	I-664	43RD ST	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
NN	ROANOKE AVE	43RD ST	BRIARFIELD RD	NS	A	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
NN	ROANOKE AVE	BRIARFIELD RD	HAMPTON CL	NS	E	1.1	0.1	0.7	0.3	0.4	0.0	0.2	0.2	1.5	0.1	0.9	0.5
NN	VICTORY BLVD	I-64	YORK CL	EW	E	1.3	0.2	0.6	0.5	0.7	0.1	0.4	0.2	2.0	0.3	0.9	0.7
NN	WARWICK BLVD	JAMES CITY CL	YORKTOWN RD	NS	E	1.1	0.3	0.5	0.3	1.2	0.3	0.6	0.3	2.3	0.6	1.2	0.5
NN	WARWICK BLVD	YORKTOWN RD	FORT EUSTIS BLVD	NS	A	2.9	0.7	1.8	0.4	3.3	0.7	2.0	0.6	6.2	1.4	3.8	1.0
NN	WARWICK BLVD	FORT EUSTIS BLVD	SNIDOW BLVD	NS	E	2.9	0.6	1.6	0.6	3.0	0.5	1.7	0.7	5.9	1.2	3.3	1.3
NN	WARWICK BLVD	SNIDOW BLVD	DENBIGH BLVD	NS	A	2.6	0.6	1.4	0.6	2.7	0.5	1.5	0.6	5.3	1.0	2.9	1.2
NN	WARWICK BLVD	DENBIGH BLVD	BLAND BLVD	NS	A	1.7	0.2	1.0	0.5	1.3	0.2	0.7	0.4	3.0	0.4	1.7	0.8
NN	WARWICK BLVD	BLAND BLVD	OYSTER POINT RD	NS	E	1.5	0.2	0.9	0.4	1.5	0.3	0.8	0.4	3.0	0.5	1.7	0.8
NN	WARWICK BLVD	OYSTER POINT RD	MAXWELL LN	NS	A	1.1	0.3	0.6	0.2	1.1	0.2	0.6	0.3	2.2	0.5	1.2	0.5
NN	WARWICK BLVD	MAXWELL LN	DEEP CREEK RD	NS	A	0.5	0.1	0.2	0.1	0.5	0.1	0.3	0.1	0.9	0.2	0.5	0.2
NN	WARWICK BLVD	DEEP CREEK RD	J CLYDE MORRIS BLVD	NS	E	1.2	0.3	0.6	0.2	1.2	0.2	0.7	0.3	2.4	0.5	1.3	0.5
NN	WARWICK BLVD	J CLYDE MORRIS BLVD	HARPERSVILLE RD	NS	A	0.7	0.1	0.4	0.2	0.3	0.0	0.2	0.1	1.0	0.2	0.6	0.2
NN	WARWICK BLVD	HARPERSVILLE RD	MAIN ST	NS	E	1.1	0.2	0.7	0.3	1.2	0.1	0.9	0.2	2.3	0.3	1.5	0.5
NN	WARWICK BLVD	MAIN ST	CENTER AVE	NS	A	0.7	0.1	0.4	0.1	0.5	0.1	0.3	0.1	1.2	0.3	0.7	0.3
NN	WARWICK BLVD	CENTER AVE	MERCURY BLVD	NS	A	0.5	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.2
NN	WARWICK BLVD	MERCURY BLVD	HUNTINGTON AVE	NS	A	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1	0.6	0.1	0.3	0.1
NN	WARWICK BLVD	23RD ST	39TH ST	NS	A	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0
NN	WARWICK BLVD	39TH ST	HUNTINGTON AVE	NS	A	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0
NOR	26TH ST	HAMPTON BLVD	COLLEY AVE	EW	E	0.4	0.1	0.2	0.1					0.4	0.1	0.2	0.1
NOR	26TH ST	COLLEY AVE	LLEWELLYN AVE	EW	E	1.6	0.3	1.0	0.3					1.6	0.3	1.0	0.3
NOR	26TH ST	LLEWELLYN AVE	MONTICELLO AVE	EW	E	0.6	0.1	0.4	0.1					0.6	0.1	0.4	0.1
NOR	26TH ST	MONTICELLO AVE	CHURCH ST	EW	A	0.3	0.1	0.2	0.1					0.3	0.1	0.2	0.1
NOR	26TH ST	CHURCH ST	27TH ST	EW	E	0.3	0.0	0.2	0.1					0.3	0.0	0.2	0.1
NOR	27TH ST	HAMPTON BLVD	COLLEY AVE	EW	A					1.6	0.5	0.8	0.3	1.6	0.5	0.8	0.3
NOR	27TH ST	COLLEY AVE	LLEWELLYN AVE	EW	A					1.8	0.4	0.9	0.3	1.8	0.4	0.9	0.3
NOR	27TH ST	LLEWELLYN AVE	MONTICELLO AVE	EW	E					1.0	0.2	0.5	0.2	1.0	0.2	0.5	0.2
NOR	27TH ST	MONTICELLO AVE	CHURCH ST	EW	E					0.6	0.2	0.4	0.1	0.6	0.2	0.4	0.1
NOR	27TH ST	CHURCH ST	26TH ST	EW	E					0.5	0.2	0.2	0.1	0.5	0.2	0.2	0.1
NOR	38TH ST	HAMPTON BLVD	COLLEY AVE	EW	E	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.1
NOR	38TH ST	COLLEY AVE	LLEWELLYN AVE	EW	A	0.3	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
NOR	38TH ST	LLEWELLYN AVE	GRANBY ST	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
NOR	4TH VIEW ST	I-64	OCEAN VIEW AVE	EW	A	0.4	0.1	0.3	0.1	0.4	0.0	0.1	0.3	0.8	0.1	0.4	0.3
NOR	ADMIRAL TAUSSIG BLVD	HAMPTON BLVD	I-564	EW	E	2.8	0.7	1.8	0.2	3.5	0.8	2.3	0.4	6.3	1.5	4.1	0.6
NOR	AZALEA GARDEN RD	VA BEACH BLVD	PRINCESS ANNE RD	NS	E	1.6	0.5	0.9	0.2	1.4	0.3	0.8	0.3	3.0	0.8	1.7	0.5
NOR	AZALEA GARDEN RD	PRINCESS ANNE RD	SEWELLS POINT RD	NS	E	0.5	0.2	0.3	0.1	0.8	0.2	0.4	0.2	1.3	0.3	0.8	0.2
NOR	AZALEA GARDEN RD	SEWELLS POINT RD	ROBIN HOOD RD	NS	E	0.7	0.2	0.4	0.1	1.0	0.2	0.6	0.2	1.7	0.4	1.0	0.3
NOR	AZALEA GARDEN RD	ROBIN HOOD RD	I-64	NS	E	0.7	0.3	0.3	0.1	0.6	0.1	0.3	0.1	1.3	0.4	0.6	0.2
NOR	AZALEA GARDEN RD	I-64	MILITARY HWY	NS	E	0.6	0.2	0.3	0.1	0.5	0.1	0.3	0.1	1.1	0.3	0.5	0.2
NOR	AZALEA GARDEN RD	MILITARY HWY	NORVIEW AVE	NS	E	0.5	0.1	0.3	0.1	0.5	0.1	0.4	0.0	1.0	0.2	0.7	0.1
NOR	AZALEA GARDEN RD	NORVIEW AVE	LITTLE CREEK RD	NS	E	0.9	0.4	0.4	0.1	1.0	0.2	0.6	0.2	2.0	0.6	1.0	0.3
NOR	BALLENTINE BLVD	I-264	VA BEACH BLVD	NS	A	8.3	1.6	5.1	1.6	12.1	2.8	6.7	2.4	20.4	4.4	11.8	4.0
NOR	BALLENTINE BLVD	VA BEACH BLVD	PRINCESS ANNE RD	NS	A	1.7	0.4	1.0	0.3	5.3	0.6	2.5	1.9	7.0	1.0	3.5	2.2
NOR	BALLENTINE BLVD	PRINCESS ANNE RD	CHESAPEAKE BLVD	NS	E	2.0	0.5	1.2	0.3	6.8	0.6	2.7	3.0	8.9	1.0	3.9	3.4
NOR	BAYVIEW BLVD	GRANBY ST	TIDEWATER DR	EW	E	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.3	0.1	0.1	0.1
NOR	BAYVIEW BLVD	TIDEWATER DR	CHESAPEAKE BLVD	EW	A	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
NOR	BAYVIEW BLVD	CHESAPEAKE BLVD	CAPE VIEW AVE	EW	E	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.5	0.2	0.2	0.1
NOR	BOUSH ST/WATERSIDE DR	ST PAULS BLVD	CITY HALL AVE	NS	E	2.7	0.6	1.2	0.8	1.7	0.6	0.7	0.4	4.4	1.2	1.9	1.2
NOR	BOUSH ST	CITY HALL AVE	BUTE STREET	NS	E	2.0	0.4	1.0	0.5	0.9	0.3	0.4	0.2	2.9	0.7	1.4	0.8
NOR	BOUSH ST	BUTE STREET	BRAMBLETON AVE	NS	E	0.5	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.7	0.2	0.4	0.2
NOR	BRAMBLETON AVE	HAMPTON BLVD	COLLEY AVE	EW	E	4.8	1.1	3.3	0.5	4.6	0.2	1.3	3.1	9.5	1.3	4.6	3.6

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
NOR	BRAMBLETON AVE	COLLEY AVE	BOUSH ST	EW	E	8.5	1.5	5.8	1.1	7.6	1.4	4.8	1.4	16.1	2.9	10.6	2.5
NOR	BRAMBLETON AVE	BOUSH ST	MONTICELLO AVE	EW	E	1.6	0.4	1.1	0.1	1.6	0.3	1.0	0.2	3.2	0.7	2.1	0.4
NOR	BRAMBLETON AVE	MONTICELLO AVE	ST PAULS BLVD	EW	E	1.1	0.2	0.7	0.1	1.1	0.2	0.7	0.2	2.1	0.5	1.4	0.3
NOR	BRAMBLETON AVE	ST PAULS BLVD	CHURCH ST	EW	E	1.1	0.3	0.5	0.3	1.3	0.2	0.7	0.4	2.3	0.4	1.3	0.6
NOR	BRAMBLETON AVE	CHURCH ST	TIDEWATER DR	EW	E	1.5	0.4	0.8	0.4	1.8	0.2	1.0	0.5	3.3	0.6	1.8	0.9
NOR	BRAMBLETON AVE	TIDEWATER DR	PARK AVE	EW	A	1.8	0.4	1.0	0.4	6.0	0.9	3.3	1.7	7.9	1.3	4.4	2.1
NOR	BRAMBLETON AVE	PARK AVE	I-264	EW	A	1.0	0.2	0.6	0.2	3.1	0.5	1.8	0.8	4.1	0.7	2.3	1.0
NOR	CAMPOSTELLA RD	WILSON RD	S. END CAMPOSTELLA BRIDGE	NS	E	1.5	0.6	0.7	0.1	2.0	0.3	1.0	0.6	3.5	0.9	1.6	0.8
NOR	CAMPOSTELLA RD	S. END CAMPOSTELLA BRIDGE	KIMBALL TERR	NS	E	3.3	1.3	1.7	0.3	2.5	0.5	1.4	0.6	5.8	1.7	3.1	0.8
NOR	CAMPOSTELLA RD	KIMBALL TERR	I-264	NS	E	0.7	0.3	0.4	0.1	0.6	0.1	0.3	0.1	1.3	0.4	0.7	0.2
NOR	CHESAPEAKE BLVD	LAFAYETTE BLVD	CROMWELL DR	NS	E	0.9	0.1	0.5	0.3	0.6	0.1	0.3	0.2	1.5	0.2	0.8	0.5
NOR	CHESAPEAKE BLVD	CROMWELL DR	ROBIN HOOD RD	NS	E	0.3	0.0	0.2	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
NOR	CHESAPEAKE BLVD	ROBIN HOOD RD	HYDE CIR	NS	E	1.4	0.2	0.9	0.3	0.9	0.2	0.5	0.2	2.3	0.3	1.4	0.5
NOR	CHESAPEAKE BLVD	HYDE CIR	NORVIEW AVE	NS	E	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
NOR	CHESAPEAKE BLVD	NORVIEW AVE	I-64	NS	E	0.8	0.4	0.3	0.1	1.9	0.3	1.0	0.5	2.7	0.8	1.3	0.6
NOR	CHESAPEAKE BLVD	I-64	JOHNSTONS RD	NS	E	0.5	0.1	0.3	0.1	0.2	0.0	0.2	0.0	0.7	0.2	0.4	0.1
NOR	CHESAPEAKE BLVD	JOHNSTONS RD	LITTLE CREEK RD	NS	E	0.8	0.2	0.4	0.1	0.4	0.1	0.3	0.1	1.1	0.3	0.7	0.2
NOR	CHESAPEAKE BLVD	LITTLE CREEK RD	SHEPPARD AVE	NS	E	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.1	0.9	0.2	0.5	0.2
NOR	CHESAPEAKE BLVD	SHEPPARD AVE	BAYVIEW BLVD	NS	E	0.3	0.1	0.1	0.0	0.3	0.1	0.2	0.1	0.6	0.2	0.3	0.1
NOR	CHESAPEAKE BLVD	BAYVIEW BLVD	CHESAPEAKE ST	NS	E	0.2	0.1	0.1	0.0	0.3	0.1	0.2	0.1	0.5	0.1	0.3	0.1
NOR	CHESAPEAKE BLVD	CHESAPEAKE ST	OCEAN VIEW AVE	NS	A	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
NOR	CHURCH ST	MONTICELLO AVE	GRANBY ST	NS	E	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.2
NOR	CITY HALL AVE	BOUSH ST	GRANBY ST	EW	E	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.3	0.1	0.1	0.1
NOR	CITY HALL AVE	GRANBY ST	MONTICELLO AVE	EW	E	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.1
NOR	CITY HALL AVE	MONTICELLO AVE	ST PAULS BLVD	EW	E	0.7	0.1	0.3	0.3	0.4	0.1	0.2	0.1	1.1	0.2	0.5	0.4
NOR	COLLEY AVE	BRAMBLETON AVE	OLNEY RD	NS	E	0.2	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.5	0.1	0.3	0.1
NOR	COLLEY AVE	OLNEY RD	PRINCESS ANNE RD	NS	E	0.3	0.1	0.2	0.1	0.5	0.1	0.2	0.1	0.8	0.1	0.4	0.2
NOR	COLLEY AVE	PRINCESS ANNE RD	21ST ST	NS	E	0.5	0.1	0.3	0.1	0.4	0.0	0.2	0.1	0.9	0.1	0.6	0.3
NOR	COLLEY AVE	21ST ST	26TH ST	NS	E	0.3	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.1
NOR	COLLEY AVE	26TH ST	27TH ST	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
NOR	COLLEY AVE	27TH ST	38TH ST	NS	A	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.4	0.0	0.2	0.1
NOR	COLLEY AVE	38TH ST	53RD ST	NS	A	0.4	0.1	0.2	0.1	0.4	0.0	0.2	0.2	0.8	0.1	0.4	0.3
NOR	GRANBY ST	CHURCH ST	38TH ST	NS	E	0.5	0.1	0.3	0.1	0.5	0.1	0.2	0.1	1.0	0.2	0.5	0.2
NOR	GRANBY ST	38TH ST	LLEWELLYN AVE	NS	E	0.6	0.2	0.2	0.1	0.5	0.1	0.3	0.1	1.0	0.3	0.5	0.2
NOR	GRANBY ST	LLEWELLYN AVE	WILLOW WOOD DRIVE	NS	E	0.6	0.2	0.2	0.1	0.5	0.1	0.3	0.1	1.0	0.3	0.5	0.2
NOR	GRANBY ST	WILLOW WOOD DRIVE	THOLE ST	NS	A	1.2	0.4	0.6	0.3	1.2	0.3	0.7	0.2	2.4	0.7	1.3	0.5
NOR	GRANBY ST	THOLE ST	LITTLE CREEK RD	NS	E	1.3	0.3	0.6	0.3	1.2	0.2	0.6	0.3	2.5	0.6	1.2	0.6
NOR	GRANBY ST	LITTLE CREEK RD	I-564	NS	E	0.5	0.1	0.2	0.1	0.5	0.1	0.2	0.1	1.0	0.2	0.5	0.2
NOR	GRANBY ST	I-564	I-64	NS	E	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
NOR	GRANBY ST	I-64	BAYVIEW BLVD	NS	E	0.4	0.1	0.1	0.1	0.5	0.2	0.2	0.0	0.9	0.4	0.4	0.1
NOR	GRANBY ST	BAYVIEW BLVD	BAY AVE	NS	A	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.0	0.6	0.2	0.3	0.1
NOR	GRANBY ST	BAY AVE	TIDEWATER DR	NS	A	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
NOR	GRANBY ST	TIDEWATER DR	OCEAN VIEW AVE	NS	E	0.3	0.1	0.1	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.1
NOR	HAMPTON BLVD	BRAMBLETON AVE	PRINCESS ANNE RD	NS	E	3.0	0.6	2.0	0.4	6.8	0.6	3.5	2.7	9.8	1.2	5.5	3.1
NOR	HAMPTON BLVD	PRINCESS ANNE RD	21ST ST	NS	E	3.6	0.7	2.5	0.5	8.2	0.8	4.2	3.2	11.8	1.5	6.6	3.7
NOR	HAMPTON BLVD	21ST ST	26TH ST	NS	E	1.0	0.2	0.6	0.1	1.4	0.2	0.7	0.5	2.3	0.5	1.3	0.6
NOR	HAMPTON BLVD	26TH ST	27TH ST	NS	E	0.6	0.1	0.5	0.0	0.6	0.1	0.4	0.1	1.3	0.2	0.9	0.2
NOR	HAMPTON BLVD	27TH ST	38TH ST	NS	E	1.3	0.3	0.9	0.2	1.4	0.2	0.9	0.2	2.7	0.5	1.8	0.4
NOR	HAMPTON BLVD	38TH ST	JAMESTOWN CRESCENT	NS	A	10.5	2.5	6.7	1.2	11.1	1.8	7.5	1.8	21.5	4.2	14.2	3.1
NOR	HAMPTON BLVD	JAMESTOWN CRESCENT	LITTLE CREEK RD	NS	A	6.2	1.7	3.9	0.5	3.3	0.5	2.2	0.6	9.5	2.2	6.1	1.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
NOR	HAMPTON BLVD	LITTLE CREEK RD	INTERNATIONAL TERMINAL BLVD	NS	E	0.9	0.2	0.6	0.1	0.5	0.1	0.3	0.1	1.3	0.3	0.9	0.2
NOR	HAMPTON BLVD	INTERNATIONAL TERMINAL BLVD	FUTURE INTERMODAL CONNECTOR	NS	E	6.7	1.8	4.2	0.5	5.0	0.7	3.6	0.7	11.8	2.6	7.8	1.2
NOR	HAMPTON BLVD	FUTURE INTERMODAL CONNECTOR	ADM TAUSSIG BLVD	NS	E	6.2	1.7	3.8	0.5	4.6	0.7	3.3	0.6	10.8	2.4	7.2	1.1
NOR	INDIAN RIVER RD	MARSH ST	WILSON RD	EW	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0
NOR	INDIAN RIVER RD	WILSON RD	CAMPOSTELLA RD	EW	E	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
NOR	INDIAN RIVER RD	CAMPOSTELLA RD	CHESAPEAKE CL	EW	A	0.7	0.1	0.4	0.1	1.4	0.5	0.7	0.1	2.0	0.6	1.2	0.3
NOR	INGLESIDE RD	VA BEACH BLVD	PRINCESS ANNE RD	NS	E	1.7	0.5	1.0	0.2	1.9	0.7	1.0	0.2	3.6	1.1	2.0	0.5
NOR	INGLESIDE RD	PRINCESS ANNE RD	TAIT TERRACE DR	NS	A	0.7	0.2	0.5	0.1	0.9	0.2	0.6	0.1	1.7	0.4	1.0	0.2
NOR	JAMESTOWN CRESCENT	53RD ST	HAMPTON BLVD	NS	E	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.3	0.0	0.2	0.1
NOR	LAFAYETTE BLVD	27TH ST	TIDEWATER DR	EW	E	0.8	0.1	0.4	0.3	0.6	0.2	0.2	0.1	1.4	0.3	0.6	0.4
NOR	LAFAYETTE BLVD	TIDEWATER DR	CHESAPEAKE BLVD	EW	A	1.2	0.2	0.6	0.3	0.9	0.3	0.4	0.2	2.1	0.5	1.1	0.5
NOR	LLEWELLYN AVE	VA BEACH BLVD	PRINCESS ANNE RD	NS	E	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0
NOR	LLEWELLYN AVE	PRINCESS ANNE RD	21ST ST	NS	E	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.2	0.1
NOR	LLEWELLYN AVE	21ST ST	26TH ST	NS	E	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1
NOR	LLEWELLYN AVE	27TH ST	35TH ST	NS	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0
NOR	LLEWELLYN AVE	35TH ST	38TH ST	NS	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
NOR	LLEWELLYN AVE	38TH ST	DELAWARE AVE	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
NOR	LLEWELLYN AVE	DELAWARE AVE	GRANBY ST	NS	E					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NOR	MIDTOWN TUNNEL	PORTSMOUTH CL	BRAMBLETON AVE	NS	A	10.8	5.5	3.6	1.5	7.6	0.9	2.9	3.7	18.4	6.5	6.5	5.2
NOR	MILITARY HWY	VA BEACH CL	I-264	NS	A	1.0	0.3	0.4	0.2	1.7	0.3	0.8	0.5	2.6	0.7	1.2	0.7
NOR	MILITARY HWY	I-264	VA BEACH BLVD	NS	E	2.1	0.3	1.3	0.4	3.8	0.6	1.9	1.2	5.9	0.9	3.2	1.7
NOR	MILITARY HWY	VA BEACH BLVD	LOWERY RD	NS	A	2.4	0.4	1.6	0.4	2.2	0.3	1.1	0.8	4.6	0.7	2.6	1.2
NOR	MILITARY HWY	LOWERY RD	PRIN ANNE RD/NORTHAMPTON BLVD	NS	A	3.6	0.6	2.4	0.6	3.3	0.4	1.6	1.2	6.9	1.0	4.0	1.7
NOR	MILITARY HWY	PRIN ANNE RD/NORTHAMPTON BLVD	I-64	NS	E	1.0	0.3	0.5	0.2	2.9	0.4	1.4	1.1	3.9	0.6	1.8	1.3
NOR	MILITARY HWY	I-64	AZALEA GARDEN RD	NS	E	0.9	0.2	0.5	0.2	2.3	0.5	1.1	0.7	3.2	0.8	1.5	0.9
NOR	MILITARY HWY	AZALEA GARDEN RD	NORVIEW AVE	NS	A	0.8	0.1	0.4	0.2	0.9	0.2	0.5	0.2	1.6	0.3	0.9	0.4
NOR	MILITARY HWY	NORVIEW AVE	JOHNSTONS RD	NS	E	1.6	0.2	0.8	0.5	2.5	0.3	1.2	0.8	4.0	0.6	2.1	1.3
NOR	MILITARY HWY	JOHNSTONS RD	LITTLE CREEK RD	NS	E	0.6	0.1	0.3	0.2	0.5	0.1	0.3	0.2	1.1	0.2	0.5	0.4
NOR	MONTICELLO AVE	ST PAULS BLVD	VA BEACH BLVD	NS	E	0.6	0.1	0.3	0.1	0.5	0.1	0.2	0.1	1.1	0.2	0.6	0.2
NOR	MONTICELLO AVE	VA BEACH BLVD	PRINCESS ANNE RD	NS	A	0.9	0.2	0.5	0.1	0.7	0.1	0.4	0.2	1.6	0.4	0.9	0.3
NOR	MONTICELLO AVE	PRINCESS ANNE RD	21ST ST	NS	A	2.0	0.5	1.2	0.3	1.5	0.4	0.7	0.4	3.5	0.8	1.8	0.7
NOR	MONTICELLO AVE	21ST ST	26TH ST	NS	E	1.0	0.3	0.4	0.2	0.8	0.1	0.4	0.2	1.7	0.4	0.8	0.4
NOR	MONTICELLO AVE	26TH ST	27TH ST	NS	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
NOR	MONTICELLO AVE	27TH ST	CHURCH ST	NS	E	0.6	0.2	0.3	0.1	0.5	0.1	0.2	0.1	1.1	0.2	0.5	0.3
NOR	NEWTOWN RD	KEMPSVILLE RD	I-264	NS	A	0.8	0.2	0.4	0.2	0.8	0.1	0.4	0.3	1.6	0.3	0.8	0.5
NOR	NEWTOWN RD	I-264	VA BEACH BLVD	NS	E	3.3	0.5	1.5	1.3	2.4	0.4	1.0	0.9	5.7	0.9	2.5	2.2
NOR	NEWTOWN RD	VA BEACH BLVD	VA BEACH CL	NS	A	0.3	0.1	0.1	0.1	0.6	0.1	0.3	0.3	0.9	0.2	0.4	0.3
NOR	NORTHAMPTON BLVD	MILITARY HWY	KEMPSVILLE RD	EW	E	1.0	0.2	0.5	0.3	0.9	0.1	0.4	0.4	1.9	0.4	0.9	0.6
NOR	NORTHAMPTON BLVD	KEMPSVILLE RD	I-64	EW	E	2.2	0.5	1.0	0.6	2.1	0.3	0.9	0.8	4.2	0.8	1.9	1.3
NOR	NORTHAMPTON BLVD	I-64	WESLEYAN DR/VA BEACH CL	EW	E	4.6	1.1	2.2	1.1	4.9	0.9	2.2	1.6	9.5	2.0	4.4	2.6
NOR	NORVIEW AVE	CHESAPEAKE BLVD	I-64	EW	A	0.5	0.2	0.2	0.0	0.4	0.1	0.2	0.1	0.9	0.3	0.4	0.1
NOR	OCEAN VIEW AVE	4TH VIEW ST	TIDEWATER DR	EW	A	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
NOR	OCEAN VIEW AVE	TIDEWATER DR	GRANBY ST	EW	A	0.4	0.0	0.3	0.1	0.8	0.1	0.4	0.2	1.2	0.2	0.6	0.3
NOR	OCEAN VIEW AVE	GRANBY ST	CHESAPEAKE BLVD	EW	E	0.4	0.0	0.3	0.1	0.2	0.1	0.1	0.0	0.6	0.1	0.4	0.1
NOR	PARK AVE	BRAMBLETON AVE	VA BEACH BLVD	EW	A	0.5	0.1	0.3	0.1	1.6	0.3	0.7	0.6	2.2	0.4	1.0	0.7
NOR	PARK AVE	VA BEACH BLVD	PRINCESS ANNE RD	EW	E	0.1	0.0	0.0	0.0	0.3	0.0	0.2	0.1	0.3	0.0	0.2	0.1
NOR	PRINCESS ANNE RD	HAMPTON BLVD	COLLEY AVE	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.0
NOR	PRINCESS ANNE RD	COLLEY AVE	LLEWELLYN AVE	EW	E	0.4	0.1	0.2	0.1	0.6	0.2	0.2	0.1	1.0	0.2	0.5	0.3
NOR	PRINCESS ANNE RD	LLEWELLYN AVE	MONTICELLO AVE	EW	E	0.3	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.6	0.2	0.3	0.1
NOR	PRINCESS ANNE RD	MONTICELLO AVE	CHURCH ST	EW	A	0.4	0.1	0.2	0.1	0.5	0.2	0.2	0.1	0.9	0.2	0.4	0.2

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
NOR	PRINCESS ANNE RD	CHURCH ST	TIDEWATER DR	EW	E	0.4	0.1	0.2	0.1	0.5	0.2	0.2	0.1	0.8	0.2	0.4	0.2
NOR	PRINCESS ANNE RD	TIDEWATER DR	MAY AVE	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0
NOR	PRINCESS ANNE RD	MAY AVE	PARK AVE	EW	E	0.3	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.7	0.1	0.4	0.1
NOR	PRINCESS ANNE RD	PARK AVE	BALLENTINE BLVD	EW	E	2.1	0.6	1.0	0.4	2.3	0.5	1.1	0.6	4.3	1.1	2.1	1.0
NOR	PRINCESS ANNE RD	BALLENTINE BLVD	INGLESIDE RD	EW	A	1.4	0.4	0.7	0.2	1.5	0.3	0.8	0.3	2.9	0.7	1.6	0.6
NOR	PRINCESS ANNE RD	INGLESIDE RD	AZALEA GARDEN RD	EW	A	1.1	0.3	0.5	0.3	1.1	0.3	0.6	0.3	2.2	0.6	1.1	0.5
NOR	PRINCESS ANNE RD	AZALEA GARDEN RD	SEWELLS POINT RD	EW	E	0.7	0.2	0.3	0.2	0.7	0.2	0.3	0.2	1.4	0.4	0.6	0.3
NOR	PRINCESS ANNE RD	SEWELLS POINT RD	MILITARY HWY	EW	E	2.5	0.7	1.1	0.6	2.5	0.6	1.3	0.6	5.0	1.3	2.4	1.2
NOR	SEWELLS POINT RD	PRINCESS ANNE RD	AZALEA GARDEN RD	NS	A	0.3	0.1	0.1	0.1	0.4	0.1	0.2	0.1	0.7	0.2	0.3	0.2
NOR	SEWELLS POINT RD	AZALEA GARDEN RD	ROBIN HOOD RD	NS	A	0.5	0.2	0.2	0.1	0.7	0.2	0.3	0.2	1.3	0.4	0.6	0.3
NOR	SEWELLS POINT RD	ROBIN HOOD RD	CHESAPEAKE BLVD	NS	A	0.5	0.2	0.2	0.1	0.6	0.1	0.3	0.1	1.1	0.3	0.5	0.2
NOR	SEWELLS POINT RD	CHESAPEAKE BLVD	PARTRIDGE ST	NS	A	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.1
NOR	SEWELLS POINT RD	PARTRIDGE ST	PHILPOTTS RD	NS	A	0.2	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.5	0.1	0.2	0.1
NOR	SEWELLS POINT RD	PHILPOTTS RD	I-64	NS	A	0.3	0.1	0.1	0.1	0.3	0.0	0.2	0.1	0.5	0.1	0.3	0.1
NOR	SEWELLS POINT RD	I-64	LITTLE CREEK RD	NS	A	0.9	0.2	0.5	0.2	0.9	0.2	0.5	0.2	1.8	0.4	1.0	0.4
NOR	SHORE DRIVE	21ST BAY ST	LITTLE CREEK RD	EW	A	0.9	0.1	0.5	0.3	0.7	0.1	0.4	0.2	1.6	0.3	0.9	0.4
NOR	SHORE DRIVE	LITTLE CREEK RD	VA BEACH CL	EW	E	0.9	0.2	0.4	0.2	0.8	0.1	0.5	0.2	1.7	0.3	0.9	0.4
NOR	ST PAULS BLVD	WATERSIDE DR	CITY HALL AVE	NS	E	0.6	0.1	0.2	0.3	0.3	0.1	0.1	0.0	0.9	0.2	0.3	0.3
NOR	ST PAULS BLVD	CITY HALL AVE	I-264 RAMP/MACARTHUR MALL	NS	E	0.8	0.2	0.3	0.3	0.6	0.2	0.2	0.1	1.4	0.4	0.5	0.4
NOR	ST PAULS BLVD	I-264 RAMP/MACARTHUR MALL	BRAMBLETON AVE	NS	E	1.1	0.4	0.5	0.2	1.5	0.7	0.5	0.3	2.6	1.1	1.0	0.5
NOR	ST PAULS BLVD	BRAMBLETON AVE	MONTICELLO AVE	NS	E	1.4	0.3	0.8	0.2	1.1	0.2	0.5	0.3	2.4	0.5	1.3	0.5
NOR	TIDEWATER DR	CITY HALL AVE	BRAMBLETON AVE	NS	E	0.8	0.2	0.5	0.1	1.5	0.2	0.8	0.4	2.3	0.5	1.3	0.5
NOR	TIDEWATER DR	BRAMBLETON AVE	VA BEACH BLVD	NS	E	1.1	0.3	0.5	0.2	1.7	0.2	0.8	0.7	2.8	0.6	1.3	0.9
NOR	TIDEWATER DR	VA BEACH BLVD	PRINCESS ANNE RD	NS	E	0.4	0.1	0.2	0.1	0.6	0.1	0.2	0.2	1.0	0.2	0.4	0.3
NOR	TIDEWATER DR	PRINCESS ANNE RD	LAFAYETTE BLVD	NS	E	3.0	0.6	1.7	0.7	3.1	0.5	1.3	1.2	6.2	1.1	3.0	1.9
NOR	TIDEWATER DR	LAFAYETTE BLVD	CROMWELL DR	NS	E	1.4	0.4	0.7	0.3	1.3	0.2	0.6	0.5	2.7	0.5	1.3	0.8
NOR	TIDEWATER DR	CROMWELL DR	NORVIEW AVE	NS	A	1.3	0.4	0.6	0.2	2.3	0.3	1.1	0.9	3.6	0.7	1.7	1.1
NOR	TIDEWATER DR	NORVIEW AVE	THOLE ST	NS	E	1.5	0.4	0.7	0.4	1.3	0.2	0.7	0.4	2.8	0.6	1.4	0.7
NOR	TIDEWATER DR	THOLE ST	I-64	NS	E	0.4	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.7	0.1	0.3	0.2
NOR	TIDEWATER DR	I-64	LITTLE CREEK RD	NS	E	1.3	0.2	0.6	0.4	1.1	0.4	0.5	0.2	2.5	0.6	1.1	0.6
NOR	TIDEWATER DR	LITTLE CREEK RD	BAYVIEW BLVD	NS	A	0.6	0.1	0.3	0.1	0.4	0.1	0.2	0.1	1.0	0.2	0.5	0.2
NOR	TIDEWATER DR	BAYVIEW BLVD	GRANBY ST	NS	E	0.3	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.6	0.1	0.3	0.1
NOR	TIDEWATER DR	GRANBY ST	OCEAN VIEW AVE	NS	E	0.4	0.0	0.1	0.3	0.1	0.0	0.1	0.0	0.6	0.1	0.2	0.3
NOR	VA BEACH BLVD	MONTICELLO AVE	CHURCH ST	EW	E	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.2	0.1
NOR	VA BEACH BLVD	CHURCH ST	TIDEWATER DR	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
NOR	VA BEACH BLVD	TIDEWATER DR	PARK AVE	EW	A	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.1	0.7	0.1	0.4	0.2
NOR	VA BEACH BLVD	PARK AVE	BALLENTINE BLVD	EW	A	1.7	0.3	1.0	0.4	1.1	0.2	0.6	0.2	2.9	0.6	1.6	0.6
NOR	VA BEACH BLVD	BALLENTINE BLVD	INGLESIDE RD	EW	E	2.1	0.6	1.1	0.4	2.3	0.9	1.0	0.3	4.4	1.5	2.1	0.7
NOR	VA BEACH BLVD	INGLESIDE RD	AZALEA GARDEN RD	EW	E	2.3	0.4	1.3	0.5	1.7	0.4	0.9	0.3	3.9	0.7	2.3	0.8
NOR	VA BEACH BLVD	AZALEA GARDEN RD	JETT ST	EW	E	1.5	0.2	0.9	0.4	0.8	0.2	0.5	0.1	2.3	0.4	1.4	0.5
NOR	VA BEACH BLVD	JETT ST	MILITARY HWY	EW	E	3.4	0.5	2.0	0.9	1.9	0.4	1.2	0.2	5.3	0.9	3.2	1.1
NOR	VA BEACH BLVD	MILITARY HWY	GLENROCK RD	EW	E	0.7	0.1	0.4	0.2	0.4	0.0	0.2	0.1	1.1	0.2	0.6	0.3
NOR	VA BEACH BLVD	GLENROCK RD	KEMPSVILLE RD	EW	E	1.0	0.2	0.5	0.3	0.6	0.1	0.3	0.2	1.6	0.2	0.9	0.5
NOR	VA BEACH BLVD	KEMPSVILLE RD	NEWTOWN RD	EW	A	2.2	0.3	1.2	0.7	1.2	0.1	0.7	0.4	3.4	0.5	1.9	1.0
NOR	WILSON RD	BERKLEY AVE/CHESAPEAKE CL	INDIAN RIVER RD	EW	E	0.6	0.1	0.3	0.1	0.5	0.1	0.2	0.1	1.0	0.2	0.5	0.3
NOR	WILSON RD	INDIAN RIVER RD	CAMPOSTELLA RD	EW	E	0.3	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.2	0.1
POQ	VICTORY BLVD	YORK CL	WYTHE CREEK RD	EW	A	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.4	0.2
POQ	WYTHE CREEK RD	HAMPTON CL	ALPHUS ST	NS	A	0.4	0.1	0.2	0.1	0.3	0.0	0.2	0.0	0.7	0.2	0.4	0.2
POQ	WYTHE CREEK RD	ALPHUS ST	LITTLE FLORIDA RD	NS	E	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
PORT	AIRLINE BLVD	CHESAPEAKE CL	GREENWOOD DR	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
PORT	AIRLINE BLVD	GREENWOOD DR	ELMHURST LN	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.1	0.2	0.1
PORT	AIRLINE BLVD	ELMHURST LN	.55 MI E ELMHURST LN	EW	E	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.1	1.0	0.2	0.5	0.2
PORT	AIRLINE BLVD	.55 MI E ELMHURST LN	VICTORY BLVD	EW	E	0.6	0.1	0.3	0.1	0.7	0.1	0.4	0.2	1.3	0.2	0.7	0.3
PORT	AIRLINE BLVD	VICTORY BLVD	PORTSMOUTH BLVD	EW	E	0.3	0.1	0.1	0.1	0.3	0.0	0.2	0.1	0.6	0.1	0.3	0.1
PORT	AIRLINE BLVD	PORTSMOUTH BLVD	FREDERICK BLVD	EW	E	1.8	0.3	1.1	0.4	2.1	0.2	1.3	0.5	4.0	0.6	2.4	0.9
PORT	AIRLINE BLVD	FREDERICK BLVD	HIGH ST	EW	E	0.3	0.1	0.1	0.1	0.5	0.1	0.3	0.2	0.8	0.1	0.4	0.2
PORT	CEDAR LN	HIGH ST	W NORFOLK RD	NS	A	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.4	0.2
PORT	CEDAR LN	W NORFOLK RD	WESTERN FREEWAY	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.1
PORT	ELM AVE	LONDON BLVD	HIGH ST	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
PORT	ELM AVE	HIGH ST	COUNTY ST	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.1
PORT	ELM AVE	COUNTY ST	SOUTH ST	NS	E	0.2	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.4	0.1	0.2	0.1
PORT	ELM AVE	SOUTH ST	I-264	NS	A	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.1	0.5	0.1	0.3	0.1
PORT	ELM AVE	I-264	PORTSMOUTH BLVD	NS	A	1.7	0.3	1.0	0.4	2.1	0.2	1.2	0.6	3.8	0.5	2.3	1.0
PORT	ELM AVE	PORTSMOUTH BLVD	EFFINGHAM ST	NS	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.2	0.1
PORT	FREDERICK BLVD	GEORGE WASHINGTON HWY	PORTSMOUTH BLVD	NS	E	1.8	0.6	0.8	0.3	1.0	0.2	0.5	0.3	2.8	0.8	1.3	0.7
PORT	FREDERICK BLVD	PORTSMOUTH BLVD	DEEP CREEK BLVD	NS	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.1	0.2	0.1
PORT	FREDERICK BLVD	DEEP CREEK BLVD	I-264	NS	E	1.5	0.3	0.9	0.3	1.6	0.3	0.7	0.6	3.1	0.6	1.5	0.9
PORT	FREDERICK BLVD	I-264	TURNPIKE RD	NS	E	3.1	0.8	1.7	0.6	2.2	0.4	1.1	0.7	5.3	1.2	2.7	1.2
PORT	FREDERICK BLVD	TURNPIKE RD	AIRLINE BLVD	NS	E	0.7	0.1	0.4	0.1	0.6	0.1	0.3	0.1	1.3	0.3	0.7	0.3
PORT	FREDERICK BLVD	AIRLINE BLVD	HIGH ST	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
PORT	GEORGE WASHINGTON HWY	CHESAPEAKE CL	VICTORY BLVD	NS	E	0.5	0.1	0.3	0.1	0.6	0.1	0.3	0.2	1.1	0.2	0.6	0.3
PORT	GEORGE WASHINGTON HWY	VICTORY BLVD	DAVIS ST	NS	E	0.6	0.1	0.4	0.1	0.6	0.1	0.3	0.2	1.2	0.2	0.7	0.3
PORT	GEORGE WASHINGTON HWY	DAVIS ST	GREENWOOD DR	NS	E	1.5	0.3	0.9	0.3	1.4	0.2	0.8	0.4	2.9	0.4	1.7	0.7
PORT	GEORGE WASHINGTON HWY	GREENWOOD DR	FREDERICK BLVD	NS	E	1.3	0.2	0.7	0.3	1.2	0.2	0.7	0.3	2.4	0.4	1.4	0.6
PORT	GREENWOOD DR	AIRLINE BLVD	I-264	EW	E	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
PORT	GREENWOOD DR	I-264	CAVALIER BLVD	EW	E	0.4	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.5	0.1	0.3	0.2
PORT	GREENWOOD DR	CAVALIER BLVD	VICTORY BLVD	EW	E	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
PORT	GREENWOOD DR	VICTORY BLVD	INDEPENDENCE ST	EW	A	0.3	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
PORT	GREENWOOD DR	INDEPENDENCE ST	DEEP CREEK BLVD	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
PORT	GREENWOOD DR	DEEP CREEK BLVD	GEORGE WASHINGTON HWY	EW	E	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
PORT	HIGH ST	TYRE NECK RD	CHURCHLAND BLVD	EW	E	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.1
PORT	HIGH ST	CHURCHLAND BLVD	CEDAR LA	EW	E	0.7	0.1	0.4	0.2	0.8	0.1	0.5	0.2	1.5	0.2	0.9	0.3
PORT	HIGH ST	CEDAR LA	FREDERICK BLVD	EW	E	2.0	0.4	1.1	0.4	2.1	0.4	1.2	0.5	4.1	0.8	2.4	0.9
PORT	LONDON BLVD	HIGH ST	MT VERNON AVE	EW	A	0.2	0.1	0.1	0.1	1.1	0.1	0.5	0.4	1.3	0.2	0.7	0.4
PORT	LONDON BLVD	MT VERNON AVE	M L K FWY	EW	A	0.2	0.0	0.1	0.0	0.8	0.1	0.5	0.2	1.0	0.2	0.6	0.3
PORT	MIDTOWN TUNNEL	MLK FWY/WESTERN FREEWAY	NORFOLK CL	NS	A	17.4	8.9	5.8	2.4	12.2	1.5	4.7	6.0	29.6	10.4	10.5	8.4
PORT	M L K FREEWAY	LONDON BLVD	WESTERN FREEWAY/MIDTOWN TUNN	NS	E	3.1	1.2	1.3	0.5	2.7	0.7	1.8	0.2	5.7	1.9	3.1	0.7
PORT	PORTSMOUTH BLVD	CHESAPEAKE CL	ELMHURST LN	EW	E	0.6	0.0	0.4	0.2	0.7	0.1	0.4	0.2	1.3	0.1	0.8	0.4
PORT	PORTSMOUTH BLVD	ELMHURST LN	VICTORY BLVD	EW	A	0.5	0.1	0.3	0.1	0.9	0.1	0.5	0.2	1.4	0.2	0.8	0.3
PORT	PORTSMOUTH BLVD	VICTORY BLVD	AIRLINE BLVD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
PORT	PORTSMOUTH BLVD	AIRLINE BLVD	TURNPIKE RD	EW	E	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
PORT	PORTSMOUTH BLVD	TURNPIKE RD	I-264	EW	E	0.1	0.0	0.0	0.0	0.3	0.0	0.2	0.1	0.4	0.1	0.2	0.1
PORT	PORTSMOUTH BLVD	I-264	DEEP CREEK BLVD	EW	E	0.8	0.1	0.6	0.1	0.6	0.1	0.4	0.2	1.5	0.2	1.0	0.3
PORT	PORTSMOUTH BLVD	DEEP CREEK BLVD	FREDERICK BLVD	EW	E	0.2	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.2	0.1
PORT	PORTSMOUTH BLVD	FREDERICK BLVD	ELM AVE	EW	A	0.8	0.1	0.5	0.3	1.0	0.1	0.4	0.4	1.8	0.1	1.0	0.7
PORT	PORTSMOUTH BLVD	ELM AVE	EFFINGHAM ST	EW	E	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.3	0.1	0.2	0.0
PORT	PORTSMOUTH BLVD	EFFINGHAM ST	PORTCENTRE PKWY	EW	A	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0
PORT	TOWN POINT RD	SUFFOLK CL	TWIN PINES RD	EW	E	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.4	0.1	0.1	0.1
PORT	TOWN POINT RD	TWIN PINES RD	WESTERN FREEWAY	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1
PORT	TOWN POINT RD	WESTERN FREEWAY	CHESAPEAKE CL	EW	A	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.2	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
PORT	VICTORY BLVD	PORTSMOUTH BLVD	AIRLINE BLVD	EW	E	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
PORT	VICTORY BLVD	AIRLINE BLVD	I-264	EW	E	1.5	0.1	0.7	0.5	1.3	0.3	0.7	0.2	2.7	0.4	1.5	0.8
PORT	VICTORY BLVD	I-264	GREENWOOD DR	EW	A	1.5	0.2	0.7	0.6	1.5	0.4	0.8	0.2	3.0	0.6	1.5	0.8
PORT	VICTORY BLVD	GREENWOOD DR	DEEP CREEK BLVD	EW	E	1.4	0.2	0.7	0.4	1.4	0.4	0.7	0.2	2.8	0.6	1.4	0.6
PORT	VICTORY BLVD	DEEP CREEK BLVD	GEORGE WASHINGTON HWY	EW	E	0.7	0.1	0.5	0.1	1.0	0.2	0.5	0.3	1.7	0.3	1.0	0.4
PORT	VICTORY BLVD	GEORGE WASHINGTON HWY	AFTON PKWY	EW	A	0.3	0.0	0.2	0.0	1.3	0.2	0.6	0.5	1.6	0.2	0.8	0.5
PORT	VICTORY BLVD	AFTON PKWY	ELM AVE	EW	E	0.1	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.3	0.0	0.2	0.1
PORT	WESTERN BRANCH BLVD	CHESAPEAKE CL	TYRE NECK RD	EW	E	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.2	0.1
PORT	WESTERN FWY	SUFFOLK CL	TOWN POINT RD	EW	A	1.3	0.3	0.9	0.1	1.7	0.3	1.0	0.3	3.0	0.6	1.9	0.4
PORT	WESTERN FWY	TOWN POINT RD	CEDAR LN	EW	A	2.1	0.7	1.2	0.1	1.8	0.3	1.2	0.4	3.9	1.0	2.4	0.5
PORT	WESTERN FWY	CEDAR LN	APM BLVD	EW	A	2.6	1.5	1.0	0.1	1.4	0.3	0.9	0.2	4.1	1.8	1.9	0.3
PORT	WESTERN FWY	APM BLVD	WEST NORFOLK RD	EW	A	1.6	0.9	0.6	0.1	0.9	0.2	0.6	0.1	2.5	1.1	1.2	0.2
PORT	WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	EW	E	13.3	7.6	4.8	0.6	7.9	1.9	5.1	0.9	21.2	9.5	9.9	1.6
SH	ROUTE 35	NC STATE LINE	SCL BOYKINS	NS	E	0.4	0.0	0.2	0.1	0.2	0.0	0.1	0.1	0.6	0.1	0.3	0.2
SH	ROUTE 35	SCL BOYKINS	ROUTE 1324	NS	E	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.0	0.2	0.1
SH	ROUTE 35	ROUTE 1324	ROUTE 186	NS	E	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.1
SH	ROUTE 35	ROUTE 186	NCL BOYKINS	NS	A	0.6	0.1	0.3	0.2	0.6	0.1	0.3	0.2	1.2	0.2	0.7	0.3
SH	ROUTE 35	NCL BOYKINS	ROUTE 671	NS	A	0.6	0.1	0.4	0.2	0.6	0.1	0.4	0.2	1.3	0.2	0.7	0.3
SH	ROUTE 35	ROUTE 671	GRAYS SHOP RD (RTE 673)	NS	A	0.7	0.2	0.5	0.1	0.8	0.1	0.4	0.3	1.5	0.3	0.9	0.3
SH	ROUTE 35	GRAYS SHOP RD (RTE 673)	ROUTE 58	NS	E	0.5	0.1	0.3	0.1	0.5	0.1	0.3	0.1	1.0	0.2	0.5	0.2
SH	ROUTE 35/BUS ROUTE 58	ROUTE 58	WCL COURTLAND	EW	E	0.3	0.1	0.2	0.1	0.4	0.0	0.2	0.1	0.7	0.1	0.4	0.2
SH	ROUTE 35/BUS ROUTE 58	WCL COURTLAND	BUS RTE 58	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SH	ROUTE 35	BUS RTE 58	NCL COURTLAND	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
SH	ROUTE 35	NCL COURTLAND	IVOR RD (RTE 616)	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SH	ROUTE 35	IVOR RD (RTE 616)	CARYS BRIDGE RD (RTE 653)	NS	A	1.6	0.2	0.8	0.4	2.0	0.3	1.2	0.4	3.6	0.5	2.0	0.8
SH	ROUTE 58	GREENSVILLE CL	ADAMS GROVE RD (RTE 615)	EW	E	0.6	0.2	0.2	0.2	-	-	-	-	-	-	-	-
SH	ROUTE 58	ADAMS GROVE RD (RTE 615)	DREWRY RD (RTE 659)	EW	E	0.5	0.1	0.2	0.2	-	-	-	-	-	-	-	-
SH	ROUTE 58	DREWRY RD (RTE 659)	PINOPOLIS RD (ROUTE 653)	EW	E	0.8	0.2	0.4	0.3	1.3	0.2	0.6	0.3	2.1	0.4	0.9	0.6
SH	ROUTE 58	PINOPOLIS RD (ROUTE 653)	ROUTE 35	EW	E	0.9	0.3	0.3	0.3	1.2	0.3	0.5	0.3	2.1	0.5	0.8	0.6
SH	ROUTE 58	ROUTE 35	BUS RTE 58 W	EW	E	3.0	0.7	1.5	0.7	2.1	0.4	1.1	0.6	5.1	1.0	2.6	1.2
SH	ROUTE 58	BUS RTE 58 W	CAMP PKWY (BUS RTE 58 E)	EW	A	3.8	0.7	1.9	1.0	9.2	1.2	4.7	2.8	13.0	1.9	6.6	3.8
SH	ROUTE 58	CAMP PKWY (BUS RTE 58 E)	ARMORY DR (RTE 671)	EW	E	1.3	0.3	0.6	0.3	1.2	0.2	0.6	0.3	2.5	0.5	1.2	0.6
SH	ROUTE 58	ARMORY DR (RTE 671)	ROUTE 258	EW	E	0.7	0.2	0.3	0.1	0.5	0.1	0.2	0.1	1.1	0.3	0.6	0.2
SH	ROUTE 58	ROUTE 258	PRETLOW RD (RTE 714)	EW	E	0.6	0.1	0.3	0.2	0.7	0.1	0.3	0.2	1.3	0.2	0.6	0.4
SH	ROUTE 58	PRETLOW RD (RTE 714)	SUFFOLK CL	EW	E	0.4	0.1	0.2	0.1	0.3	0.0	0.1	0.1	0.7	0.1	0.3	0.2
SH	ROUTE 258	NC STATE LINE	ROUTE 189	EW	E	1.3	0.2	0.8	0.3	0.5	0.1	0.3	0.1	1.9	0.2	1.1	0.5
SH	ROUTE 258	ROUTE 189	DOGWOOD BEND RD (RTE 684)	EW	A	0.6	0.0	0.4	0.2	0.3	0.1	0.2	0.1	0.9	0.1	0.6	0.2
SH	ROUTE 258	DOGWOOD BEND RD (RTE 684)	ROUTE 58	EW	E	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
SH	ROUTE 460	SUSSEX CL	WCL IVOR	EW	A	1.8	0.4	1.0	0.4	2.7	0.4	1.4	0.7	4.5	0.8	2.4	1.1
SH	ROUTE 460	WCL IVOR	ROUTE 616 (IVOR RD)	EW	A	0.3	0.1	0.1	0.1	0.4	0.1	0.2	0.1	0.7	0.1	0.4	0.2
SH	ROUTE 460	ROUTE 616 (IVOR RD)	ECL IVOR	EW	E	0.4	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.6	0.1	0.3	0.1
SH	ROUTE 460	ECL IVOR	ISLE OF WIGHT CL	EW	E	2.4	0.5	1.3	0.5	1.3	0.2	0.6	0.3	3.7	0.7	2.0	0.8
SUF	BRIDGE RD	ISLE OF WIGHT CL	E. END CHUCKATUCK BRIDGE	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
SUF	BRIDGE RD	E. END CHUCKATUCK BRIDGE	CRITTENDEN RD	EW	E	0.3	0.1	0.1	0.0	0.4	0.1	0.2	0.1	0.6	0.1	0.4	0.1
SUF	BRIDGE RD	CRITTENDEN RD	N. END NANSEMOND RIVER	EW	E	0.3	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.1	0.3	0.1
SUF	BRIDGE RD	N. END NANSEMOND RIVER	S. END NANSEMOND RIVER	EW	E	0.3	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.1	0.3	0.1
SUF	BRIDGE RD	S. END NANSEMOND RIVER	BENNETTS PASTURE RD	EW	E	0.3	0.1	0.2	0.1	0.3	0.0	0.2	0.1	0.7	0.1	0.4	0.1
SUF	BRIDGE RD	BENNETTS PASTURE RD	SHOULDERS HILL RD	EW	E	2.4	0.6	1.4	0.4	1.7	0.3	1.0	0.4	4.2	0.9	2.4	0.8
SUF	BRIDGE RD	SHOULDERS HILL RD	HARBOUR VIEW BLVD	EW	E	2.2	0.5	1.3	0.4	4.2	0.7	2.4	1.1	6.4	1.1	3.7	1.5
SUF	BRIDGE RD	HARBOUR VIEW BLVD	WESTERN FWY	EW	E	0.3	0.1	0.2	0.1	0.6	0.1	0.3	0.1	0.9	0.2	0.5	0.2

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
SUF	BRIDGE RD	WESTERN FWY	I-664	EW	E	0.5	0.1	0.3	0.1	0.5	0.1	0.4	0.1	1.0	0.2	0.6	0.2
SUF	BRIDGE RD	I-664	COLLEGE DR	EW	E	0.4	0.0	0.2	0.1	0.3	0.1	0.2	0.0	0.7	0.1	0.4	0.1
SUF	BRIDGE RD	COLLEGE DR	CHESAPEAKE CL	EW	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
SUF	CAROLINA RD	NC STATE LINE	RTE 642	NS	A	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.0	0.8	0.2	0.5	0.1
SUF	CAROLINA RD	RTE 642	RTE 675	NS	E	0.3	0.1	0.2	0.1	0.4	0.1	0.2	0.0	0.7	0.1	0.4	0.1
SUF	CAROLINA RD	RTE 675	BABB'TOWN RD (RTE 759)	NS	A	0.2	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
SUF	CAROLINA RD	BABB'TOWN RD (RTE 759)	WHALEYVILLE BLVD	NS	E	0.5	0.1	0.3	0.1	0.6	0.2	0.3	0.0	1.0	0.3	0.6	0.1
SUF	CAROLINA RD	WHALEYVILLE BLVD	TURLINGTON RD	NS	E	2.3	0.5	1.2	0.5	4.2	0.7	2.5	0.9	6.5	1.3	3.7	1.3
SUF	CAROLINA RD	TURLINGTON RD	SW SUFFOLK BYPASS	NS	E	2.3	0.4	1.3	0.5	1.7	0.3	0.9	0.5	4.0	0.7	2.2	1.0
SUF	CAROLINA RD	SW SUFFOLK BYPASS	FAYETTE ST	NS	E	5.8	0.8	3.5	1.2	5.4	0.9	3.0	1.0	11.2	1.7	6.5	2.2
SUF	COLLEGE DR	BRIDGE RD	WESTERN FREEWAY	NS	E	0.2	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
SUF	COLLEGE DR	WESTERN FREEWAY	HAMPTON ROADS PKWY	NS	A	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.5	0.2	0.2	0.1
SUF	COLLEGE DR	HAMPTON ROADS PKWY	I-664	NS	A	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
SUF	CONSTANCE RD	HOLLAND RD	PITCHKETTLE RD	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
SUF	CONSTANCE RD	PITCHKETTLE RD	MAIN ST	EW	A	0.4	0.0	0.2	0.1	0.3	0.1	0.2	0.1	0.7	0.1	0.4	0.2
SUF	CONSTANCE RD	MAIN ST	WILROY RD	EW	E	1.1	0.1	0.6	0.3	1.4	0.2	0.9	0.4	2.5	0.3	1.5	0.7
SUF	GODWIN BLVD	PRUDEN BLVD	SUFFOLK BYPASS	NS	E	1.4	0.3	0.7	0.3	1.8	0.5	0.9	0.3	3.1	0.8	1.6	0.6
SUF	GODWIN BLVD	SUFFOLK BYPASS	KINGS FORK RD	NS	E	5.0	1.1	2.4	1.4	5.6	1.5	2.7	1.3	10.7	2.6	5.1	2.7
SUF	GODWIN BLVD	KINGS FORK ROAD	1.36 MI N OF KINGS FORK RD	NS	A	0.4	0.1	0.2	0.1	0.4	0.2	0.2	0.0	0.8	0.3	0.4	0.1
SUF	GODWIN BLVD	1.36 MILES N OF KINGS FORK RD	EVERETS RD	NS	A	1.0	0.2	0.5	0.2	1.0	0.4	0.4	0.1	2.0	0.7	1.0	0.3
SUF	GODWIN BLVD	EVERETS RD	KINGS HWY	NS	E	0.6	0.1	0.3	0.1	0.5	0.2	0.3	0.1	1.1	0.3	0.6	0.2
SUF	GODWIN BLVD	KINGS HWY	ISLE OF WIGHT CL	NS	E	0.3	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
SUF	HAMPTON ROADS PKWY	HARBOUR VIEW BLVD	COLLEGE DR	EW	A	0.3	0.1	0.1	0.0	0.4	0.1	0.1	0.1	0.7	0.3	0.3	0.1
SUF	HAMPTON ROADS PKWY	COLLEGE DR	PORTSMOUTH CL	EW	A	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1
SUF	HOLLAND RD (BUS RTE 58)	SUFFOLK BYPASS	CONSTANCE RD	EW	A	0.9	0.1	0.5	0.2	0.7	0.2	0.4	0.2	1.7	0.3	0.9	0.4
SUF	MAIN ST	FAYETTE ST	WASHINGTON ST	NS	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
SUF	MAIN ST	WASHINGTON ST	CONSTANCE RD	NS	E	0.3	0.0	0.2	0.0	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.1
SUF	MAIN ST	CONSTANCE RD	PRUDEN BLVD/GODWIN BLVD	NS	A	0.9	0.1	0.6	0.2	1.8	0.3	1.1	0.3	2.7	0.4	1.7	0.5
SUF	PITCHKETTLE RD	CONSTANCE RD	SUFFOLK BYPASS	NS	A	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.1	0.2	0.1
SUF	PITCHKETTLE RD	SUFFOLK BYPASS	KINGS FORK RD	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.1
SUF	PORTSMOUTH BLVD	WILROY RD	WASHINGTON ST	EW	A	1.9	0.3	1.1	0.4	2.1	0.3	1.2	0.6	3.9	0.6	2.3	1.0
SUF	PORTSMOUTH BLVD	WASHINGTON ST	SUFFOLK BYPASS	EW	A	1.1	0.2	0.6	0.2	1.3	0.2	0.8	0.4	2.4	0.4	1.4	0.5
SUF	PRUDEN BLVD	ISLE OF WIGHT CL	LAKE PRINCE DR	EW	E	4.0	0.5	2.2	1.1	3.2	0.5	1.7	0.8	7.2	1.0	4.0	1.9
SUF	PRUDEN BLVD	LAKE PRINCE DR	KINGS FORK RD	EW	E	4.7	0.9	2.5	1.1	4.8	1.0	2.4	1.2	9.5	1.9	4.9	2.4
SUF	PRUDEN BLVD	KINGS FORK RD	SUFFOLK BYPASS	EW	E	5.7	1.6	2.9	1.0	8.1	2.0	3.9	1.9	13.8	3.7	6.8	2.9
SUF	PRUDEN BLVD	SUFFOLK BYPASS	GODWIN BLVD	EW	E	0.3	0.0	0.2	0.1	0.3	0.0	0.1	0.1	0.6	0.1	0.4	0.1
SUF	PUGHSVILLE RD	SHOULDERS HILL RD	TOWN POINT RD	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0
SUF	PUGHSVILLE RD	TOWN POINT RD	CHESAPEAKE CL	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
SUF	ROUTE 13/58/460	SUFFOLK BYPASS	CHESAPEAKE CL	EW	A	6.8	1.8	3.8	0.9	4.0	0.7	2.3	0.8	10.8	2.5	6.1	1.8
SUF	ROUTE 58	SOUTHAMPTON CL	RTE 189/258	EW	E	0.6	0.1	0.2	0.2	0.4	0.0	0.2	0.1	1.0	0.1	0.4	0.3
SUF	ROUTE 58	RTE 189/258	RTE 272 (S. QUAY RD)	EW	E	0.1	0.0	0.0	0.1	0.4	0.0	0.2	0.1	0.5	0.1	0.2	0.2
SUF	ROUTE 58	RTE 272	S. QUAY RD (ROUTE 189)	EW	E	1.4	0.3	0.6	0.5	1.6	0.2	0.6	0.6	3.0	0.4	1.1	1.1
SUF	ROUTE 58 (HOLLAND BYPASS)	S. QUAY RD (ROUTE 189)	BUS RTE 58 (HOLLAND RD)	EW	E	0.4	0.1	0.1	0.1	0.9	0.1	0.4	0.3	1.3	0.2	0.5	0.4
SUF	ROUTE 58 (HOLLAND RD)	BUS RTE 58 (HOLLAND RD)	RTE 649 (LUMMIS RD)	EW	E	4.6	1.1	2.1	1.2	3.6	0.2	1.5	1.4	8.2	1.3	3.6	2.7
SUF	ROUTE 58 (HOLLAND RD)	RTE 649 (LUMMIS RD)	RTE 643 (MANNING BRIDGE RD)	EW	E	2.5	0.6	1.1	0.7	1.9	0.1	0.8	0.8	4.4	0.7	2.0	1.4
SUF	ROUTE 58 (HOLLAND RD)	RTE. 643 (MANNING BRIDGE RD)	COVE POINT DR	EW	E	1.5	0.3	0.7	0.4	1.2	0.1	0.5	0.5	2.7	0.4	1.2	0.9
SUF	ROUTE 58 (HOLLAND RD)	COVE POINT DR	SUFFOLK BYPASS	EW	E	12.3	2.3	6.9	2.6	14.0	2.3	7.2	4.0	26.3	4.5	14.1	6.6
SUF	SOUTHWEST SUFFOLK BYPASS	HOLLAND RD	CAROLINA RD	NS	A	1.1	0.2	0.6	0.2	1.5	0.4	0.9	0.2	2.6	0.6	1.5	0.4
SUF	SUFFOLK BYPASS	HOLLAND RD	PITCHKETTLE RD	EW	E	2.0	0.3	1.1	0.4	8.3	1.2	4.2	2.5	10.3	1.5	5.3	2.9
SUF	SUFFOLK BYPASS	PITCHKETTLE RD	PRUDEN BLVD	EW	E	1.2	0.2	0.7	0.3	0.5	0.1	0.3	0.1	1.7	0.3	0.9	0.4

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
SUF	SUFFOLK BYPASS	PRUDEN BLVD	GODWIN BLVD	EW	E	0.6	0.1	0.3	0.2	0.6	0.1	0.3	0.2	1.2	0.2	0.6	0.3
SUF	SUFFOLK BYPASS	GODWIN BLVD	WILROY RD	EW	E	0.8	0.1	0.4	0.2	1.2	0.2	0.6	0.4	2.0	0.3	1.0	0.5
SUF	SUFFOLK BYPASS	WILROY RD	ROUTES 13/58/460	EW	E	1.1	0.1	0.6	0.3	0.6	0.1	0.3	0.2	1.6	0.2	0.8	0.5
SUF	WASHINGTON ST	MAIN ST	PINNER ST	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
SUF	WASHINGTON ST	PINNER ST	PORTSMOUTH BLVD	EW	E	1.7	0.3	0.9	0.4	1.5	0.2	0.9	0.3	3.2	0.5	1.8	0.8
SUF	WESTERN FWY	I-664	COLLEGE DR	EW	E	0.9	0.2	0.6	0.1	0.6	0.1	0.3	0.1	1.5	0.3	0.9	0.2
SUF	WESTERN FWY	COLLEGE DR	PORTSMOUTH CL	EW	A	0.3	0.1	0.2	0.0	0.3	0.1	0.2	0.1	0.6	0.1	0.4	0.1
SUF	WHALEYVILLE BLVD	NC STATE LINE	RTE 616 (MINERAL SPRING RD)	NS	A	1.8	0.3	1.0	0.4	1.7	0.3	0.9	0.4	3.5	0.6	1.9	0.8
SUF	WHALEYVILLE BLVD	RTE 616 (MINERAL SPRING RD)	RTE 677 (GREAT FORK RD)	NS	E	0.5	0.1	0.3	0.1	0.5	0.1	0.3	0.1	1.0	0.2	0.6	0.2
SUF	WHALEYVILLE BLVD	RTE 677 (GREAT FORK RD)	RTE 675 (CYPRESS CHAPEL RD)	NS	E	0.4	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.8	0.2	0.5	0.2
SUF	WHALEYVILLE BLVD	RTE 675 (CYPRESS CHAPEL RD)	RTE 759 (BABBTOWN RD)	NS	E	2.0	0.4	1.1	0.4	1.9	0.4	1.0	0.4	3.9	0.7	2.1	0.9
SUF	WHALEYVILLE BLVD	RTE 759 (BABBTOWN RD)	RTE 32 (CAROLINA RD)	NS	E	1.7	0.3	0.9	0.4	1.6	0.3	0.8	0.4	3.3	0.6	1.7	0.7
SUR	ROUTE 10	PRINCE GEORGE CL	ROUTE 40	EW	E	0.4	0.1	0.3	0.1	0.6	0.1	0.3	0.2	1.0	0.2	0.6	0.2
SUR	ROUTE 10	ROUTE 40	ROUTE 31 (SOUTH)	EW	A	0.8	0.1	0.5	0.1	0.9	0.1	0.6	0.2	1.7	0.3	1.1	0.3
SUR	ROUTES 10/31	ROUTE 31 (SOUTH)	ROUTE 31 (NORTH)	NS	E	0.7	0.1	0.5	0.0	0.8	0.1	0.5	0.2	1.4	0.2	1.0	0.2
SUR	ROUTE 10	ROUTE 31 (NORTH)	ROUTE 617	EW	E	1.6	0.3	0.9	0.3	1.9	0.4	1.0	0.5	3.5	0.7	1.9	0.8
SUR	ROUTE 10	ROUTE 617	ISLE OF WIGHT CL	EW	E	0.6	0.1	0.3	0.1	0.7	0.1	0.4	0.2	1.3	0.2	0.7	0.3
SUR	ROUTE 40	SUSSEX CL	ROUTE 615	NS	A	0.3	0.1	0.1	0.0	0.3	0.0	0.2	0.1	0.6	0.1	0.4	0.1
SUR	ROUTE 40	ROUTE 615	ROUTE 10	NS	E	0.3	0.1	0.2	0.0	0.4	0.0	0.3	0.1	0.7	0.2	0.4	0.1
VB	21ST ST	PARKS AVE	PACIFIC AVE	EW	A	1.2	0.2	0.7	0.2					1.2	0.2	0.7	0.2
VB	21ST ST	PACIFIC AVE	ATLANTIC AVE	EW	E	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0
VB	22ND ST	PARKS AVE	PACIFIC AVE	EW	A					0.7	0.1	0.5	0.1	0.7	0.1	0.5	0.1
VB	22ND ST	PACIFIC AVE	ATLANTIC AVE	EW	E					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VB	ATLANTIC AVE	83RD ST	PACIFIC AVE	NS	E	1.6	0.3	0.9	0.3	1.5	0.2	0.9	0.4	3.1	0.5	1.9	0.7
VB	ATLANTIC AVE	PACIFIC AVE	LASKIN RD	NS	E	1.3	0.1	0.8	0.4	1.9	0.2	0.9	0.8	3.2	0.3	1.7	1.3
VB	ATLANTIC AVE	LASKIN RD	22ND ST	NS	E	1.5	0.0	0.8	0.5	2.4	0.1	1.2	1.0	3.9	0.2	2.0	1.5
VB	ATLANTIC AVE	22ND ST	21ST ST	NS	E	0.2	0.0	0.1	0.0	0.4	0.0	0.2	0.1	0.5	0.0	0.4	0.1
VB	ATLANTIC AVE	21ST ST	VA BEACH BLVD	NS	A	1.1	0.0	0.7	0.3	1.9	0.0	1.3	0.5	3.1	0.0	2.0	0.8
VB	ATLANTIC AVE	VA BEACH BLVD	5TH ST	NS	E	1.3	0.1	1.0	0.1	1.6	0.0	1.4	0.1	2.8	0.2	2.4	0.2
VB	BAXTER RD	PRINCESS ANNE RD	INDEPENDENCE BLVD	NS	A	0.8	0.4	0.3	0.1	1.1	0.2	0.4	0.4	1.9	0.6	0.7	0.5
VB	BIRDNECK RD	GENERAL BOOTH BLVD	NORFOLK AVE	NS	A	2.5	0.4	1.7	0.4	2.3	0.4	1.6	0.3	4.8	0.8	3.2	0.7
VB	BIRDNECK RD	NORFOLK AVE	VA BEACH BLVD	NS	A	0.3	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.6	0.1	0.4	0.1
VB	BIRDNECK RD	VA BEACH BLVD	I-264	NS	E	1.4	0.2	1.0	0.2	1.0	0.1	0.7	0.2	2.4	0.3	1.7	0.4
VB	BIRDNECK RD	I-264	LASKIN RD	NS	E	2.1	0.3	1.2	0.6	1.5	0.2	1.1	0.2	3.5	0.5	2.3	0.7
VB	CHESAPEAKE BAY BRIDGE-TUNNEL	SHORE DR	TOLL PLAZA	NS	A	2.6	0.6	1.3	0.5	0.5	0.1	0.3	0.1	3.2	0.7	1.6	0.6
VB	CHESAPEAKE BAY BRIDGE-TUNNEL	TOLL PLAZA	NCL VA BEACH	NS	A	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
VB	DAM NECK RD	VA BEACH AMPHITHEATER	PRINCESS ANNE RD	EW	E	1.6	0.3	1.0	0.2	0.8	0.2	0.5	0.1	2.4	0.5	1.5	0.3
VB	DAM NECK RD	PRINCESS ANNE RD	ROSEMONT RD	EW	E	0.3	0.2	0.1	0.1	0.5	0.1	0.2	0.1	0.8	0.3	0.3	0.2
VB	DAM NECK RD	ROSEMONT RD	HOLLAND RD	EW	E	0.4	0.2	0.1	0.1	0.6	0.2	0.3	0.1	1.0	0.4	0.4	0.2
VB	DAM NECK RD	HOLLAND RD	DRAKESMILE RD	EW	E	1.0	0.4	0.5	0.1	1.1	0.1	0.6	0.4	2.1	0.5	1.1	0.5
VB	DAM NECK RD	DRAKESMILE RD	LONDON BRIDGE RD	EW	E	1.1	0.5	0.5	0.1	1.2	0.1	0.7	0.4	2.3	0.6	1.2	0.5
VB	DAM NECK RD	LONDON BRIDGE RD	HARPERS RD	EW	E	0.2	0.1	0.1	0.0	0.3	0.0	0.2	0.1	0.6	0.1	0.4	0.1
VB	DAM NECK RD	HARPERS RD	GENERAL BOOTH BLVD	EW	A	0.8	0.3	0.4	0.1	1.2	0.1	0.8	0.2	1.9	0.4	1.2	0.3
VB	DIAMOND SPRINGS RD	NEWTOWN RD	WESLEYAN RD	NS	E	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.5	0.2	0.2	0.2
VB	DIAMOND SPRINGS RD	WESLEYAN RD	NORTHAMPTON BLVD	NS	E	0.6	0.3	0.2	0.1	0.6	0.3	0.1	0.2	1.3	0.5	0.4	0.3
VB	DIAMOND SPRINGS RD	NORTHAMPTON BLVD	SHORE DR	NS	A	2.6	0.8	1.4	0.4	4.0	0.8	2.3	0.8	6.7	1.6	3.8	1.2
VB	FIRST COLONIAL RD	VA BEACH BLVD	I-264	NS	E	0.3	0.1	0.2	0.1	0.8	0.2	0.5	0.1	1.1	0.2	0.6	0.2
VB	FIRST COLONIAL RD	I-264	LASKIN RD	NS	E	0.5	0.1	0.3	0.1	0.6	0.1	0.4	0.1	1.1	0.2	0.7	0.2
VB	FIRST COLONIAL RD	LASKIN RD	OLD DONATION PKWY	NS	A	1.5	0.3	0.9	0.2	2.1	0.2	1.3	0.5	3.6	0.5	2.3	0.7
VB	FIRST COLONIAL RD	OLD DONATION PKWY	GREAT NECK RD	NS	A	1.2	0.2	0.8	0.2	1.7	0.2	1.1	0.4	2.9	0.4	1.8	0.6

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
VB	GENERAL BOOTH BLVD	PRINCESS ANNE RD	NIMMO PKWY	NS	E	0.5	0.1	0.3	0.1	0.7	0.1	0.3	0.3	1.2	0.3	0.6	0.3
VB	GENERAL BOOTH BLVD	NIMMO PKWY	LONDON BRIDGE RD	NS	E	0.9	0.2	0.5	0.2	1.3	0.2	0.6	0.4	2.2	0.4	1.1	0.6
VB	GENERAL BOOTH BLVD	LONDON BRIDGE RD	DAM NECK RD	NS	E	2.0	0.5	1.2	0.4	2.8	0.5	1.3	1.0	4.9	1.0	2.4	1.3
VB	GENERAL BOOTH BLVD	DAM NECK RD	OCEANA BLVD/PROSPERITY RD	NS	E	1.1	0.4	0.5	0.2	1.8	0.2	1.0	0.5	2.9	0.6	1.5	0.7
VB	GENERAL BOOTH BLVD	OCEANA BLVD/PROSPERITY RD	BIRDNECK RD	NS	A	0.5	0.1	0.2	0.1	0.9	0.2	0.5	0.3	1.4	0.3	0.7	0.3
VB	GENERAL BOOTH BLVD	BIRDNECK RD	HARBOUR POINT	NS	A	0.8	0.2	0.4	0.2	0.5	0.1	0.3	0.1	1.3	0.2	0.7	0.3
VB	GREAT NECK RD	VA BEACH BLVD	OLD DONATION PKWY	NS	E	1.2	0.2	0.8	0.3	2.4	0.3	1.3	0.7	3.6	0.6	2.1	0.9
VB	GREAT NECK RD	OLD DONATION PKWY	FIRST COLONIAL RD	NS	E	0.7	0.1	0.5	0.1	0.7	0.1	0.4	0.2	1.5	0.2	0.9	0.3
VB	GREAT NECK RD	FIRST COLONIAL RD	SHOREHAVEN RD	NS	E	0.8	0.2	0.5	0.1	0.8	0.1	0.5	0.2	1.6	0.3	0.9	0.3
VB	GREAT NECK RD	SHOREHAVEN RD	SHORE DR	NS	A	1.6	0.4	0.9	0.2	1.6	0.3	1.0	0.3	3.2	0.6	1.9	0.6
VB	HOLLAND RD	INDEPENDENCE BLVD	SOUTH PLAZA TRAIL	NS	A	0.6	0.1	0.3	0.2	0.4	0.1	0.2	0.1	1.0	0.2	0.5	0.3
VB	HOLLAND RD	SOUTH PLAZA TRAIL	ROSEMONT RD	NS	E	2.0	0.3	0.9	0.7	1.4	0.3	0.8	0.3	3.4	0.6	1.7	1.1
VB	HOLLAND RD	ROSEMONT RD	LYNNHAVEN PKWY	NS	E	1.7	0.4	0.7	0.5	1.0	0.2	0.6	0.2	2.6	0.5	1.3	0.7
VB	HOLLAND RD	LYNNHAVEN PKWY	DAM NECK RD	NS	E	1.6	0.3	0.8	0.5	1.4	0.5	0.7	0.3	3.0	0.7	1.5	0.8
VB	HOLLAND RD	DAM NECK RD	FUTURE NIMMO PKWY	NS	E	1.2	0.5	0.4	0.2	1.0	0.7	0.3	0.1	2.2	1.2	0.7	0.3
VB	HOLLAND RD	FUTURE NIMMO PKWY	PRINCESS ANNE RD	NS	E	0.4	0.2	0.1	0.1	0.3	0.2	0.1	0.0	0.7	0.4	0.2	0.1
VB	INDEPENDENCE BLVD	INDIAN RIVER RD	SALEM RD	NS	E	0.3	0.0	0.2	0.0	0.2	0.0	0.1	0.0	0.5	0.1	0.3	0.0
VB	INDEPENDENCE BLVD	SALEM RD	PRINCESS ANNE RD	NS	E	0.6	0.1	0.3	0.1	0.2	0.1	0.1	0.0	0.8	0.2	0.5	0.1
VB	INDEPENDENCE BLVD	PRINCESS ANNE RD	LYNNHAVEN PKWY	NS	E	0.9	0.1	0.5	0.2	1.0	0.2	0.6	0.1	1.8	0.3	1.2	0.3
VB	INDEPENDENCE BLVD	LYNNHAVEN PKWY	PLAZA TRAIL	NS	A	0.8	0.2	0.5	0.2	0.9	0.2	0.6	0.1	1.8	0.4	1.1	0.3
VB	INDEPENDENCE BLVD	PLAZA TRAIL	HOLLAND RD	NS	E	1.0	0.2	0.6	0.2	0.6	0.1	0.4	0.1	1.6	0.3	1.0	0.3
VB	INDEPENDENCE BLVD	HOLLAND RD	BAXTER RD	NS	E	3.4	0.8	1.4	1.1	1.4	0.3	0.6	0.4	4.7	1.1	2.1	1.5
VB	INDEPENDENCE BLVD	BAXTER RD	I-264	NS	E	0.6	0.1	0.2	0.3	0.5	0.1	0.2	0.1	1.1	0.2	0.4	0.4
VB	INDEPENDENCE BLVD	I-264	BONNEY RD	NS	E	0.6	0.2	0.3	0.1	0.9	0.2	0.5	0.2	1.4	0.3	0.8	0.3
VB	INDEPENDENCE BLVD	BONNEY RD	COLUMBUS ST	NS	E	0.6	0.2	0.3	0.1	0.9	0.2	0.5	0.2	1.5	0.4	0.8	0.3
VB	INDEPENDENCE BLVD	COLUMBUS ST	VA BEACH BLVD	NS	E	0.3	0.1	0.2	0.1	0.5	0.1	0.3	0.1	0.8	0.2	0.4	0.2
VB	INDEPENDENCE BLVD	VA BEACH BLVD	JEANNE ST	NS	A	0.3	0.1	0.1	0.1	0.5	0.1	0.3	0.1	0.8	0.2	0.4	0.2
VB	INDEPENDENCE BLVD	JEANNE ST	PEMBROKE BLVD	NS	A	1.1	0.3	0.5	0.2	1.9	0.5	1.0	0.4	3.0	0.7	1.6	0.7
VB	INDEPENDENCE BLVD	PEMBROKE BLVD	HAYGOOD RD	NS	E	1.7	0.5	0.9	0.3	1.7	0.3	0.9	0.4	3.4	0.8	1.8	0.8
VB	INDEPENDENCE BLVD	HAYGOOD RD	NORTHAMPTON BLVD	NS	E	1.4	0.4	0.7	0.3	2.6	0.5	1.3	0.8	4.1	1.0	2.0	1.1
VB	INDEPENDENCE BLVD	NORTHAMPTON BLVD	SHORE DR	NS	E	0.5	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.7	0.3	0.3	0.1
VB	INDIAN RIVER RD	CHESAPEAKE CL	MILITARY HWY	EW	E	0.7	0.1	0.4	0.2	0.7	0.1	0.4	0.1	1.4	0.3	0.8	0.3
VB	INDIAN RIVER RD	MILITARY HWY	PROVIDENCE RD	EW	E	0.9	0.2	0.4	0.2	0.9	0.2	0.4	0.2	1.8	0.5	0.9	0.4
VB	INDIAN RIVER RD	PROVIDENCE RD	I-64	EW	E	0.9	0.1	0.3	0.4	1.7	0.3	0.8	0.5	2.6	0.4	1.1	1.0
VB	INDIAN RIVER RD	I-64	CENTERVILLE TNPK	EW	E	7.5	1.0	2.3	4.0	1.9	0.3	1.1	0.5	9.4	1.4	3.4	4.5
VB	INDIAN RIVER RD	CENTERVILLE TNPK	KEMPSVILLE RD	EW	A	5.9	0.8	1.6	3.5	3.0	0.5	1.8	0.6	8.9	1.3	3.4	4.1
VB	INDIAN RIVER RD	KEMPSVILLE RD	FERRELL PKWY	EW	E	0.6	0.1	0.2	0.2	1.5	0.3	0.7	0.4	2.0	0.4	1.0	0.6
VB	INDIAN RIVER RD	FERRELL PKWY	LYNNHAVEN PKWY	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
VB	INDIAN RIVER RD	LYNNHAVEN PKWY	INDEPENDENCE BLVD	EW	E	0.5	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.1
VB	INDIAN RIVER RD	INDEPENDENCE BLVD	ELBOW RD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.1	0.2	0.1
VB	INDIAN RIVER RD	ELBOW RD	S.E. PARKWAY LOCATION	EW	E	0.2	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
VB	INDIAN RIVER RD	S.E. PARKWAY LOCATION	NORTH LANDING RD	EW	E	0.3	0.1	0.2	0.0	0.3	0.1	0.1	0.1	0.5	0.2	0.3	0.1
VB	INDIAN RIVER RD	NORTH LANDING RD	WEST NECK RD	EW	A	0.4	0.1	0.3	0.1	0.5	0.1	0.3	0.1	0.9	0.2	0.6	0.1
VB	INDIAN RIVER RD	WEST NECK RD	PRINCESS ANNE RD	EW	A	0.3	0.1	0.2	0.0	0.3	0.1	0.2	0.0	0.6	0.1	0.4	0.1
VB	KEMPSVILLE RD	CHESAPEAKE CL	CENTERVILLE TNPK	EW	E	0.8	0.2	0.5	0.1	0.6	0.1	0.3	0.2	1.4	0.4	0.8	0.3
VB	KEMPSVILLE RD	CENTERVILLE TNPK	INDIAN RIVER RD	EW	A	1.5	0.4	0.8	0.3	0.9	0.2	0.4	0.3	2.4	0.6	1.2	0.5
VB	KEMPSVILLE RD	INDIAN RIVER RD	PROVIDENCE RD	EW	E	0.9	0.2	0.4	0.3	0.6	0.1	0.3	0.3	1.5	0.3	0.7	0.6
VB	KEMPSVILLE RD	PROVIDENCE RD	PRINCESS ANNE RD	EW	A	1.3	0.4	0.6	0.3	0.6	0.1	0.3	0.1	1.9	0.6	0.9	0.4
VB	LASKIN RD	VA BEACH BLVD	FIRST COLONIAL RD	EW	A	1.5	0.3	1.0	0.2	1.0	0.1	0.7	0.2	2.5	0.4	1.6	0.5
VB	LASKIN RD	FIRST COLONIAL RD	WINWOOD DR	EW	A	0.2	0.0	0.2	0.0	0.4	0.0	0.3	0.1	0.6	0.1	0.4	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
VB	LASKIN RD	WINWOOD DR	BIRDNECK RD	EW	A	0.5	0.0	0.3	0.1	0.7	0.1	0.5	0.1	1.2	0.1	0.8	0.2
VB	LASKIN RD	BIRDNECK RD	30TH ST	EW	E	0.7	0.1	0.5	0.1	0.5	0.1	0.3	0.1	1.3	0.2	0.8	0.2
VB	LASKIN RD	30TH ST	PACIFIC AVE	EW	E	0.4	0.1	0.3	0.0	0.3	0.0	0.2	0.1	0.7	0.1	0.4	0.1
VB	LONDON BRIDGE RD	GENERAL BOOTH BLVD	DAM NECK RD	NS	A	1.9	0.4	1.0	0.5	1.3	0.2	0.7	0.4	3.2	0.6	1.7	0.9
VB	LONDON BRIDGE RD	DAM NECK RD	DRAKESMILE RD	NS	E	0.5	0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.8	0.1	0.4	0.2
VB	LONDON BRIDGE RD	POTTERS RD	I-264	NS	E	0.5	0.1	0.3	0.1	0.5	0.0	0.3	0.1	0.9	0.2	0.5	0.2
VB	LONDON BRIDGE RD	I-264	VA BEACH BLVD	NS	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
VB	LYNNHAVEN PKWY	INDIAN RIVER RD	SALEM RD	EW	A	0.6	0.2	0.3	0.1	0.5	0.1	0.2	0.1	1.1	0.3	0.5	0.3
VB	LYNNHAVEN PKWY	SALEM RD	PRINCESS ANNE RD	EW	E	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.2	0.1
VB	LYNNHAVEN PKWY	PRINCESS ANNE RD	INDEPENDENCE BLVD	EW	E	0.3	0.1	0.2	0.1	0.3	0.0	0.2	0.1	0.6	0.1	0.4	0.1
VB	LYNNHAVEN PKWY	INDEPENDENCE BLVD	ROSEMONT RD	EW	E	0.5	0.1	0.3	0.1	0.6	0.1	0.3	0.1	1.0	0.2	0.6	0.2
VB	LYNNHAVEN PKWY	ROSEMONT RD	HOLLAND RD	EW	E	0.4	0.1	0.2	0.1	0.5	0.1	0.3	0.1	0.9	0.1	0.5	0.2
VB	LYNNHAVEN PKWY	HOLLAND RD	S LYNNHAVEN RD	EW	A	1.0	0.1	0.7	0.1	0.8	0.1	0.6	0.1	1.8	0.2	1.3	0.3
VB	LYNNHAVEN PKWY	S LYNNHAVEN RD	INTERNATIONAL PKWY	NS	A	1.1	0.2	0.6	0.2	0.9	0.2	0.6	0.1	2.0	0.3	1.2	0.4
VB	LYNNHAVEN PKWY	INTERNATIONAL PKWY	POTTERS RD	NS	E	2.4	0.4	1.4	0.5	2.0	0.3	1.3	0.3	4.4	0.7	2.7	0.8
VB	LYNNHAVEN PKWY	POTTERS RD	I-264	NS	E	0.7	0.1	0.4	0.1	0.6	0.1	0.4	0.1	1.3	0.2	0.8	0.2
VB	LYNNHAVEN PKWY	I-264	VA BEACH BLVD	NS	E	0.8	0.1	0.5	0.2	0.6	0.2	0.3	0.1	1.4	0.3	0.8	0.2
VB	MILITARY HWY	CHESAPEAKE CL	PROVIDENCE RD	NS	E	0.5	0.1	0.3	0.1	0.5	0.1	0.2	0.2	1.0	0.2	0.5	0.3
VB	MILITARY HWY	PROVIDENCE RD	INDIAN RIVER RD	NS	A	1.6	0.4	0.7	0.6	1.1	0.2	0.6	0.3	2.8	0.6	1.3	0.9
VB	MILITARY HWY	INDIAN RIVER RD	NORFOLK CL	NS	E	1.1	0.4	0.4	0.2	1.9	0.4	0.9	0.6	3.0	0.8	1.4	0.8
VB	NEWTOWN RD	NORFOLK CL	BAKER RD	NS	E	0.3	0.1	0.2	0.1	0.7	0.1	0.3	0.2	1.0	0.2	0.5	0.3
VB	NEWTOWN RD	BAKER RD	DIAMOND SPRINGS RD	NS	A	0.5	0.1	0.3	0.1	1.0	0.2	0.4	0.3	1.5	0.3	0.7	0.4
VB	NORTHAMPTON BLVD	WESLEYAN DR/NORFOLK CL	DIAMOND SPRINGS RD	EW	E	9.6	2.3	4.6	2.2	10.3	1.9	4.7	3.3	19.9	4.2	9.3	5.5
VB	NORTHAMPTON BLVD	DIAMOND SPRINGS RD	INDEPENDENCE BLVD	EW	A	2.1	0.5	1.2	0.4	5.0	0.6	2.6	1.6	7.2	1.1	3.8	2.0
VB	NORTHAMPTON BLVD	INDEPENDENCE BLVD	SHORE DR	EW	E	1.4	0.3	0.6	0.4	2.2	0.3	1.2	0.6	3.6	0.6	1.8	1.0
VB	NORTH LANDING RD	CHESAPEAKE CL	INDIAN RIVER RD	EW	E	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.3	0.0
VB	NORTH LANDING RD	INDIAN RIVER RD	SALEM RD	EW	A	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
VB	NORTH LANDING RD	SALEM RD	WEST NECK RD	EW	A	1.1	0.3	0.7	0.2	0.8	0.2	0.5	0.1	1.9	0.5	1.2	0.3
VB	NORTH LANDING RD	WEST NECK RD	PRINCESS ANNE RD	EW	A	0.3	0.1	0.2	0.0	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
VB	OCEANA BLVD	GENERAL BOOTH BLVD	HARPERS RD	NS	E	0.9	0.1	0.6	0.2	1.1	0.2	0.6	0.3	2.0	0.4	1.2	0.4
VB	OCEANA BLVD	HARPERS RD	TOMCAT BLVD (NAS MAIN ENT)	NS	E	0.3	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.6	0.1	0.3	0.1
VB	OCEANA BLVD/FIRST COLONIAL RD	TOMCAT BLVD (NAS MAIN ENT)	VA BEACH BLVD	NS	A	3.0	0.6	1.8	0.7	2.2	0.6	1.2	0.3	5.2	1.1	3.0	1.0
VB	PACIFIC AVE	ATLANTIC AVE	LASKIN RD	NS	E	0.6	0.1	0.5	0.1	0.8	0.1	0.5	0.2	1.4	0.1	0.9	0.3
VB	PACIFIC AVE	LASKIN RD	22ND ST	NS	E	0.7	0.1	0.4	0.2	0.8	0.1	0.5	0.3	1.5	0.2	0.9	0.5
VB	PACIFIC AVE	22ND ST	21ST ST	NS	E	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.1
VB	PACIFIC AVE	21ST ST	VA BEACH BLVD	NS	E	0.4	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.8	0.1	0.5	0.2
VB	PACIFIC AVE	VA BEACH BLVD	NORFOLK AVE	NS	E	0.6	0.1	0.4	0.1	0.6	0.1	0.4	0.2	1.2	0.2	0.8	0.2
VB	PACIFIC AVE	NORFOLK AVE	HARBOUR POINT	NS	A	0.9	0.1	0.7	0.1	0.6	0.1	0.4	0.1	1.5	0.2	1.1	0.3
VB	PEMBROKE BLVD	WITCHDUCK RD	INDEPENDENCE BLVD	EW	A	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.2	0.1
VB	PRINCESS ANNE RD	NEWTOWN RD/NORFOLK CL	KEMPSVILLE RD	EW	A	1.1	0.2	0.6	0.3	1.0	0.2	0.6	0.2	2.2	0.4	1.2	0.5
VB	PRINCESS ANNE RD	KEMPSVILLE RD	BAXTER RD	EW	E	0.3	0.1	0.2	0.1	0.6	0.2	0.3	0.2	0.9	0.2	0.4	0.2
VB	PRINCESS ANNE RD	BAXTER RD	PROVIDENCE RD	EW	E	1.1	0.3	0.5	0.2	1.2	0.4	0.5	0.3	2.3	0.7	1.1	0.5
VB	PRINCESS ANNE RD	PROVIDENCE RD	FERRELL PKWY	EW	A	0.7	0.2	0.4	0.1	0.5	0.1	0.2	0.1	1.2	0.3	0.6	0.3
VB	PRINCESS ANNE RD	FERRELL PKWY	LYNNHAVEN PKWY	EW	E	2.2	0.3	1.3	0.5	1.4	0.3	0.8	0.2	3.6	0.6	2.2	0.7
VB	PRINCESS ANNE RD	LYNNHAVEN PKWY	INDEPENDENCE BLVD	EW	E	1.0	0.2	0.6	0.2	1.2	0.3	0.7	0.2	2.2	0.5	1.4	0.4
VB	PRINCESS ANNE RD	INDEPENDENCE BLVD	DAM NECK RD	EW	A	3.4	0.6	2.1	0.6	4.1	1.0	2.4	0.6	7.5	1.5	4.6	1.2
VB	PRINCESS ANNE RD	DAM NECK RD	S.E. PARKWAY LOCATION	EW	E	0.7	0.2	0.4	0.1	0.6	0.1	0.4	0.2	1.4	0.2	0.8	0.3
VB	PRINCESS ANNE RD	S.E. PARKWAY LOCATION	NIMMO PKWY	EW	E	0.9	0.2	0.5	0.2	0.7	0.1	0.4	0.2	1.5	0.3	0.9	0.3
VB	PRINCESS ANNE RD	NIMMO PKWY	NORTH LANDING RD	EW	E	0.3	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.5	0.1	0.3	0.1
VB	PRINCESS ANNE RD	NORTH LANDING RD	HOLLAND RD	EW	E	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.2	0.6	0.2	0.2	0.3

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
VB	PRINCESS ANNE RD	HOLLAND RD	SEABOARD RD	EW	A	1.0	0.3	0.4	0.3	2.0	0.5	0.5	1.0	3.0	0.7	1.0	1.3
VB	PRINCESS ANNE RD	SEABOARD RD	GENERAL BOOTH BLVD	EW	A	1.0	0.3	0.4	0.3	2.0	0.5	0.5	1.0	3.0	0.7	1.0	1.3
VB	PRINCESS ANNE RD	GENERAL BOOTH BLVD	SANDBRIDGE RD/UPTON DR	NS	E	0.3	0.1	0.2	0.0	0.4	0.1	0.1	0.2	0.7	0.2	0.3	0.2
VB	PRINCESS ANNE RD	SANDBRIDGE RD/UPTON DR	SEABOARD RD	NS	E	2.5	0.6	1.5	0.4	1.5	0.4	0.8	0.3	4.0	1.0	2.3	0.6
VB	PRINCESS ANNE RD	SEABOARD RD	INDIAN RIVER RD	NS	E	0.6	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.1
VB	PRINCESS ANNE RD	INDIAN RIVER RD	PUNGO FERRY RD	NS	A	3.5	1.1	1.9	0.4	3.1	1.0	1.8	0.3	6.6	2.1	3.7	0.7
VB	PRINCESS ANNE RD	PUNGO FERRY RD	NORTH CAROLINA STATE LINE	NS	E	1.2	0.4	0.7	0.1	1.1	0.3	0.6	0.1	2.3	0.7	1.3	0.2
VB	ROSEMONT RD	LYNNHAVEN PKWY	HOLLAND RD	NS	E	1.3	0.5	0.6	0.1	1.5	0.2	1.0	0.4	2.8	0.6	1.6	0.5
VB	ROSEMONT RD	HOLLAND RD	PLAZA TRAIL	NS	A	1.7	0.4	0.9	0.3	1.0	0.2	0.6	0.2	2.8	0.6	1.6	0.6
VB	ROSEMONT RD	PLAZA TRAIL	I-264	NS	E	1.0	0.2	0.5	0.2	0.6	0.1	0.4	0.1	1.6	0.3	0.9	0.3
VB	ROSEMONT RD	I-264	VA BEACH BLVD	NS	E	0.4	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.6	0.1	0.3	0.1
VB	SHORE DRIVE	NORFOLK CL	DIAMOND SPRINGS RD	EW	E	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
VB	SHORE DRIVE	DIAMOND SPRINGS RD	INDEPENDENCE BLVD	EW	E	1.7	0.7	0.8	0.3	1.1	0.2	0.6	0.2	2.8	0.9	1.3	0.5
VB	SHORE DRIVE	INDEPENDENCE BLVD	NORTHAMPTON BLVD	EW	E	0.5	0.1	0.3	0.1	0.6	0.1	0.4	0.2	1.1	0.2	0.6	0.3
VB	SHORE DRIVE	NORTHAMPTON BLVD	GREAT NECK RD	EW	A	3.7	0.8	2.1	0.8	3.7	0.6	2.1	0.9	7.4	1.4	4.2	1.8
VB	SHORE DRIVE	GREAT NECK RD	ATLANTIC AVE	EW	E	1.5	0.2	0.9	0.4	1.7	0.2	1.0	0.5	3.2	0.4	1.9	0.9
VB	VA BEACH BLVD	NEWTOWN RD/NORFOLK CL	WITCHDUCK RD	EW	A	3.1	0.6	1.8	0.7	2.1	0.4	1.4	0.4	5.2	0.9	3.1	1.0
VB	VA BEACH BLVD	WITCHDUCK RD	INDEPENDENCE BLVD	EW	A	1.7	0.3	1.1	0.3	1.8	0.2	1.1	0.4	3.5	0.5	2.2	0.7
VB	VA BEACH BLVD	INDEPENDENCE BLVD	CONSTITUTION DR	EW	E	0.7	0.1	0.4	0.2	0.5	0.1	0.3	0.1	1.2	0.2	0.7	0.3
VB	VA BEACH BLVD	CONSTITUTION DR	ROSEMONT RD	EW	E	4.1	0.7	2.2	1.1	3.1	0.3	2.0	0.7	7.2	1.0	4.2	1.8
VB	VA BEACH BLVD	ROSEMONT RD	S. PLAZA TRAIL/LITTLE NECK RD	EW	E	0.6	0.1	0.4	0.2	0.8	0.1	0.5	0.2	1.4	0.2	0.9	0.3
VB	VA BEACH BLVD	S. PLAZA TRAIL/LITTLE NECK RD	LYNNHAVEN PKWY	EW	A	2.0	0.3	1.1	0.5	2.4	0.3	1.5	0.6	4.4	0.6	2.6	1.1
VB	VA BEACH BLVD	LYNNHAVEN PKWY	GREAT NECK RD	EW	E	1.8	0.5	1.0	0.2	1.9	0.4	1.2	0.4	3.7	0.9	2.2	0.6
VB	VA BEACH BLVD	GREAT NECK RD	LASKIN RD	EW	E	0.2	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.1
VB	VA BEACH BLVD	LASKIN RD	FIRST COLONIAL RD	EW	E	1.8	0.3	1.0	0.4	0.8	0.1	0.5	0.2	2.6	0.4	1.5	0.6
VB	VA BEACH BLVD	FIRST COLONIAL RD	N OCEANA BLVD	EW	E	0.3	0.0	0.2	0.1	0.4	0.0	0.3	0.1	0.8	0.1	0.5	0.1
VB	VA BEACH BLVD	N OCEANA BLVD	BIRDNECK RD	EW	E	0.5	0.1	0.4	0.1	0.8	0.1	0.6	0.1	1.3	0.1	0.9	0.2
VB	VA BEACH BLVD	BIRDNECK RD	PACIFIC AVE	EW	A	2.0	0.1	1.6	0.2	1.4	0.1	1.0	0.2	3.4	0.2	2.6	0.4
VB	WITCHDUCK RD	PRINCESS ANNE RD	I-264	NS	E	3.0	0.5	1.6	0.9	4.4	0.7	1.8	1.9	7.4	1.2	3.4	2.8
VB	WITCHDUCK RD	I-264	VA BEACH BLVD	NS	A	3.2	0.5	1.6	1.1	4.9	1.2	2.6	1.0	8.1	1.7	4.2	2.1
VB	WITCHDUCK RD	VA BEACH BLVD	PEMBROKE BLVD	NS	E	0.5	0.1	0.4	0.1	0.5	0.1	0.3	0.1	1.0	0.1	0.6	0.2
WMB	BYPASS RD	RICHMOND RD	YORK CL	EW	A	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
WMB	BYPASS RD	ROUTE 132/YORK CL	PAGE ST	EW	A	0.4	0.1	0.2	0.1	0.3	0.0	0.1	0.1	0.6	0.1	0.3	0.1
WMB	FRANCIS ST	BOUNDARY ST	HENRY ST	EW	E	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
WMB	HENRY ST S.	ROUTE 199	FRANCIS ST	NS	A	0.3	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.5	0.0	0.4	0.0
WMB	HENRY ST	FRANCIS ST	LAFAYETTE ST	NS	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.1
WMB	HENRY ST N.	LAFAYETTE ST	RTE 132Y	NS	A	0.3	0.0	0.2	0.1	0.3	0.0	0.2	0.0	0.6	0.1	0.4	0.1
WMB	JAMESTOWN RD	JAMES CITY CL	RTE 199	EW	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WMB	JAMESTOWN RD	RTE 199	JOHN TYLER LN	EW	E	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0
WMB	JAMESTOWN RD	JOHN TYLER LN	COLLEGE CREEK	EW	A	0.4	0.1	0.2	0.1	0.2	0.0	0.1	0.0	0.6	0.1	0.4	0.1
WMB	JAMESTOWN RD	COLLEGE CREEK	BOUNDARY ST	EW	A	0.7	0.1	0.4	0.2	0.3	0.1	0.2	0.0	1.0	0.2	0.6	0.2
WMB	MERRIMAC TRAIL	YORK CL (SOUTH)	CAPITOL LANDING RD	NS	A	0.3	0.0	0.2	0.0	0.2	0.1	0.1	0.0	0.5	0.1	0.3	0.1
WMB	MERRIMAC TRAIL	CAPITOL LANDING RD	YORK CL (NORTH)	NS	A	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
WMB	PAGE ST	BYPASS RD	SECOND ST	NS	E	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0
WMB	PAGE ST	SECOND ST	YORK ST	NS	A	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
WMB	RICHMOND RD	JAMES CITY CL	IRONBOUND RD	NS	E	1.2	0.2	0.7	0.2	1.4	0.2	0.9	0.3	2.6	0.4	1.6	0.5
WMB	RICHMOND RD	IRONBOUND RD	BYPASS RD	NS	A	0.4	0.0	0.3	0.1	0.4	0.1	0.2	0.1	0.8	0.1	0.5	0.2
WMB	ROUTE 132	ROUTE 132Y	BYPASS RD/YORK CL	NS	E	0.2	0.0	0.1	0.1	-	-	-	-	-	-	-	-
WMB	ROUTE 199	JAMES CITY CL (WEST)	JAMESTOWN RD	EW	E	0.9	0.2	0.5	0.3	0.8	0.2	0.5	0.1	1.7	0.4	1.0	0.4
WMB	ROUTE 199	JAMESTOWN RD	JAMES CITY CL (EAST)	EW	E	0.3	0.0	0.2	0.1	0.4	0.1	0.2	0.1	0.7	0.1	0.4	0.1

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

Appendix A: Truck Delay by Location – 2010 Existing (Non-Interstates)

Juris	Facility Name	Segment From	Segment To	Dir	Truck Data Type	Northbound/Eastbound				Southbound/Westbound				Combined			
						Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)	Total Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-7:00PM (hours)
WMB	YORK ST	PAGE ST	JAMES CITY CL	EW	A	0.3	0.0	0.2	0.1	0.4	0.1	0.2	0.1	0.6	0.1	0.3	0.1
YC	BIG BETHEL RD	HAMPTON CL	HAMPTON HWY (RTE 134)	NS	A	0.3	0.1	0.2	0.0	0.2	0.1	0.2	0.0	0.5	0.1	0.4	0.1
YC	BIG BETHEL RD	HAMPTON HWY (RTE 134)	VICTORY BLVD (RTE 171)	NS	E	0.2	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.4	0.1	0.2	0.0
YC	BYPASS RD	WILLIAMSBURG CL	WALLER MILL RD	EW	A	0.1	0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.1	0.1
YC	BYPASS RD	WALLER MILL RD	ROUTE 132/WILLIAMSBURG CL	EW	A	0.5	0.1	0.3	0.1	0.7	0.1	0.4	0.2	1.2	0.2	0.7	0.3
YC	DENBIGH BLVD	NEWPORT NEWS CL	ROUTE 17	EW	A	0.9	0.1	0.5	0.2	0.9	0.1	0.6	0.1	1.8	0.3	1.1	0.4
YC	FORT EUSTIS BLVD	NEWPORT NEWS CL	ROUTE 17	EW	E	2.9	0.8	1.6	0.5	3.3	0.9	1.9	0.4	6.2	1.6	3.6	0.8
YC	GEORGE WASHINGTON HWY	NEWPORT NEWS CL	VICTORY BLVD (RTE 171)	NS	E	2.4	0.4	1.3	0.6	2.4	0.5	1.4	0.4	4.8	1.0	2.7	1.1
YC	GEORGE WASHINGTON HWY	VICTORY BLVD (RTE 171)	HAMPTON HWY (RTE 134)	NS	E	0.9	0.1	0.4	0.4	2.0	0.4	1.1	0.5	3.0	0.5	1.5	0.9
YC	GEORGE WASHINGTON HWY	HAMPTON HWY (RTE 134)	DARE RD	NS	A	6.3	1.2	3.0	2.0	7.9	1.7	4.6	1.5	14.2	2.9	7.6	3.4
YC	GEORGE WASHINGTON HWY	DARE RD	DENBIGH BLVD (RTE 173)	NS	E	2.1	0.4	1.0	0.7	2.6	0.6	1.5	0.5	4.7	1.0	2.5	1.1
YC	GEORGE WASHINGTON HWY	DENBIGH BLVD (RTE 173)	FORT EUSTIS BLVD (RTE 105)	NS	E	1.2	0.3	0.6	0.3	1.8	0.4	1.0	0.4	3.0	0.7	1.6	0.6
YC	GEORGE WASHINGTON HWY	FORT EUSTIS BLVD (RTE 105)	COOK RD	NS	E	1.0	0.2	0.5	0.3	1.3	0.3	0.7	0.3	2.3	0.5	1.2	0.6
YC	GEORGE WASHINGTON HWY	COOK RD	GOOSLEY RD (RTE 238)	NS	E	3.2	0.6	1.6	0.9	4.2	0.9	2.4	0.9	7.4	1.5	4.0	1.8
YC	GEORGE WASHINGTON HWY	GOOSLEY RD (RTE 238)	GLOUCESTER CL (COLEMAN BRIDGE)	NS	E	1.4	0.2	0.8	0.3	1.8	0.3	1.1	0.3	3.2	0.6	1.9	0.6
YC	GOODWIN NECK RD	ROUTE 17	WOLF TRAP RD	EW	A	1.5	0.4	0.9	0.3	1.7	0.4	0.8	0.4	3.2	0.7	1.7	0.7
YC	HAMPTON HWY	ROUTE 17	VICTORY BLVD (RTE 171)	NS	E	0.9	0.3	0.3	0.3	0.7	0.2	0.4	0.2	1.6	0.4	0.7	0.4
YC	HAMPTON HWY	VICTORY BLVD (RTE 171)	BIG BETHEL RD (RTE 600)	NS	A	1.8	0.5	1.0	0.3	2.0	0.5	1.1	0.3	3.8	1.0	2.1	0.7
YC	HAMPTON HWY	BIG BETHEL RD (RTE 600)	NCL HAMPTON	NS	E	1.8	0.6	0.9	0.3	2.1	0.7	1.1	0.3	3.9	1.2	2.0	0.7
YC	MERRIMAC TRAIL	JAMES CITY CL	BUSCH GARDENS INTERCHANGE	NS	E	0.7	0.2	0.3	0.2	0.5	0.2	0.2	0.1	1.1	0.3	0.5	0.3
YC	MERRIMAC TRAIL	BUSCH GARDENS INTERCHANGE	ROUTE 199/JAMES CITY CL	NS	E	0.6	0.2	0.3	0.1	0.4	0.1	0.2	0.1	1.0	0.3	0.5	0.2
YC	MERRIMAC TRAIL	PENNIMAN RD/JAMES CITY CL	SECOND ST	NS	E	0.9	0.2	0.5	0.2	0.7	0.1	0.4	0.2	1.6	0.3	0.9	0.5
YC	MERRIMAC TRAIL	SECOND ST	SCL WILLIAMSBURG	NS	E	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0
YC	MERRIMAC TRAIL	NCL WILLIAMSBURG	ROUTE 132	NS	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
YC	PENNIMAN RD (RTE 641)	ROUTE 199	COLONIAL PKWY	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2	0.0
YC	POCAHONTAS TRAIL	JCC LINE @ RTE 199	KINGSMILL RD	EW	E	0.7	0.2	0.4	0.1	0.9	0.2	0.5	0.2	1.7	0.3	0.9	0.3
YC	POCAHONTAS TRAIL	KINGSMILL RD	BUSCH GARDENS INTERCHANGE	EW	E	1.8	0.4	1.0	0.3	2.3	0.4	1.3	0.5	4.1	0.8	2.3	0.8
YC	POCAHONTAS TRAIL	BUSCH GARDENS INTERCHANGE	JAMES CITY CL	EW	E	0.5	0.1	0.2	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.4	0.2
YC	ROUTE 132	BYPASS RD/WILLIAMSBURG CL	ROUTE 143	NS	A	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.4	0.1	0.3	0.1
YC	ROUTE 143	ROUTE 132	I-64	NS	E	0.6	0.1	0.4	0.1	0.5	0.2	0.2	0.0	1.1	0.3	0.6	0.2
YC	ROUTE 199	JCC LINE (WESTSIDE)	MOORETOWN RD	EW	E	0.3	0.1	0.2	0.0	0.3	0.1	0.2	0.0	0.6	0.1	0.4	0.1
YC	ROUTE 199	MOORETOWN RD	I-64	EW	A	0.4	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.6	0.1	0.4	0.1
YC	ROUTE 199	RTE 60/RTE 143/JCC LINE	I-64	EW	A	0.6	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.9	0.2	0.5	0.2
YC	VICTORY BLVD	NEWPORT NEWS CL	ROUTE 17	EW	A	2.3	0.4	1.0	0.9	1.2	0.2	0.6	0.4	3.5	0.6	1.6	1.2
YC	VICTORY BLVD	ROUTE 17	HAMPTON HWY (RTE 134)	EW	E	0.8	0.2	0.4	0.1	0.7	0.2	0.4	0.1	1.5	0.4	0.8	0.3
YC	VICTORY BLVD	HAMPTON HWY (RTE 134)	BIG BETHEL RD (RTE 600)	EW	E	0.8	0.2	0.4	0.3	0.6	0.2	0.3	0.1	1.4	0.4	0.6	0.3
YC	VICTORY BLVD	BIG BETHEL RD (RTE 600)	CARYS CHAPEL RD (RTE 782)	EW	E	0.9	0.2	0.5	0.2	1.0	0.3	0.5	0.2	1.9	0.5	1.0	0.4
YC	VICTORY BLVD	CARYS CHAPEL RD (RTE 782)	POQUOSON CL	EW	A	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.0

Source: HRTPO analysis of INRIX, VDOT and CBBT data. Truck data type of "A" is based on actual vehicle classification count data, "E" is based on estimated vehicle classification count data.

APPENDIX B:
CALCULATION OF ANNUAL TRUCK CONGESTION COST

Annual Truck Congestion Cost

For this study, Texas Transportation Institute (TTI) rates were used with total weekday truck delay (hours) to compute annual truck congestion cost²⁴. Annual truck congestion cost equals the annual cost of truck *delay* due to congestion plus the annual cost of wasted truck *fuel* due to congestion. The delay cost only includes the cost associated with truck operations.

$$\text{Annual Truck Congestion Cost} = \text{Annual Truck Delay Cost} + \text{Annual Wasted Truck Fuel Cost}$$

Although some of the annual truck congestion cost is passed on to consumers in the form of higher prices, these higher prices are not included in TTI's report estimates. Congestion negatively impacts the local economy as goods and services are not able to be delivered in a timely fashion. Furthermore, any congestion effects extending beyond the region are not reflected in the cost estimates.

Annual Truck Delay Cost

Truck delay cost is an estimate of the value of lost time in commercial vehicles and the increased operating costs of commercial vehicles due to congestion each year. The equation below shows how annual truck delay cost was calculated:

$$\text{Annual Truck Delay Cost} = \left(\left(\frac{\text{Truck Hours of Delay}}{\text{Weekday}} \right) \times \left(\frac{260 \text{ Working Days}}{\text{Year}} \right) \times \left(\frac{\$88.81 \text{ Operating Cost}}{\text{Truck Hour}} \right) \right)$$

Annual Wasted Truck Fuel Cost

TTI computes annual truck fuel wasted in congestion by subtracting annual truck fuel that would be consumed in free flow conditions from the annual truck fuel consumed in congestion. These gallons of wasted fuel are then multiplied by the cost of diesel fuel to get annual wasted truck fuel cost. According to TTI, annual wasted truck fuel accounts for approximately 8% of the total annual truck congestion cost. For this study, annual wasted truck fuel cost was calculated as follows:

$$\text{Annual Wasted Truck Fuel Cost} = \left(\left(\frac{\text{Annual Truck Delay Cost}}{0.92} \right) \times (0.08) \right)$$

²⁴ 2012 *Urban Mobility Report*, Texas A&M Transportation Institute (TTI), 2012 and TTI email correspondence with David Schrank, June 2013.

APPENDIX C: LIST OF TRANSPORTATION PROJECTS THROUGH THE YEAR 2018 INCLUDED IN THE 20-YEAR FORECAST MODEL RUN

The following table provides a list of transportation projects that were included in the Hampton Roads regional travel demand model run for the 20-year truck forecast used in this study. In order that the results of the model run might be used in the scoring and selection of projects for the 2040 LRTP, a network of existing transportation infrastructure and “committed projects” was desired. Committed projects are fully funded transportation projects that are either under construction or scheduled for construction in the near future. With such a network not being available, staff used the 2018 roadway network from a recent air quality test²⁵ as a surrogate.

²⁵ “2034 LRTP and Amended FY12-15 Project Conformity List” from the *Hampton Roads 2034 Long-Range Transportation Plan: Technical Appendices*, HRTPO, January 2012, p. 152-178.

Appendix C: List of Transportation Projects through the Year 2018 included in the 20-Year Forecast Model Run

UPC	JURISDICTION	FACILITY	FROM	TO	IMPROVEMENT TYPE	EXISTING LANES	PROPOSED LANES	IN FY12-15 TIP	IN 2034 LRTP	COMMITTED
MULTI-JURISDICTIONAL										
95149/76642/77245	MULTI	Downtown Tunnel / Midtown Tunnel / MLK extension	Hampton Blvd	I-264	Widen/ New Alignment	2,0	4	Y	Y	
56638/84272	MULTI	US Route 460 - Hampton Roads portion	Bowers Hill	Zuni	New Alignment	0	4	Y	Y	
13497/92992/93243	MULTI	Fort Eustis Blvd	0.44 mi E. of Jefferson Ave (Cherry Creek Dr)	0.01 mi W. of George Washington Memorial Hwy (Rte 17)	Widening	2	4	Y	Y	Y
CHESAPEAKE										
56187/84354	CHESAPEAKE	Dominion Blvd	0.05 mi N. of Great Bridge Blvd	0.75 mi S. of Cedar Rd	Widening	2	4	Y	Y	
1904	CHESAPEAKE	Gilmerton Bridge	0.36 mi E. of Bridge (Bainbridge Blvd)	0.42 mi W. of Bridge (Shell Rd)	Reconstruct bridge	4	4	Y	Y	Y
	CHESAPEAKE	South Norfolk Jordan Bridge	Truxton St	Veneer Rd	New Alignment	0	2	N	Y	Y
18591	CHESAPEAKE	Portsmouth Blvd	Jolliff Rd	Suffolk City Line	Widening	2	4	Y	Y	Y
HAMPTON										
93081	HAMPTON	Bridge Street Bridge	Rudd Ln	Marrow St	Reconstruct bridge	2	2	Y	Y	Y
60970/94440	HAMPTON	Commander Shepard Blvd (Phase II)	Big Bethel Rd	North Campus Pkwy	New Alignment	0	4	Y	Y	Y
76682	HAMPTON	I-64 Interchange at Lasalle Ave	n.a.	n.a.	Ramp Widening	n.a.	n.a.	Y	Y	Y
57047	HAMPTON	Saunders Road	Big Bethel Rd	Newport News City Line	Widening	2	4	Y	Y	Y
97715	HAMPTON	Wythe Creek Rd	Poquoson City Line	Commander Shepard Blvd	Widening	2	4	Y	Y	Y
ISLE OF WIGHT COUNTY										
4	ISLE OF WIGHT COUNTY	RTE 258	0.20 MILE WEST OF ROUTE 620	SMITHFIELD MIDDLE SCHOOL	Reconstruction	2	3	Y	N	
JAMES CITY COUNTY										
50057	JAMES CITY COUNTY	Ironbound Rd	0.07 mi S. of Longhill Connector Rd (Schmidt Rd)	0.01 mi S. of Strawberry Plains Rd	Widening	2	4	Y	Y	Y
NEWPORT NEWS										
93077	NEWPORT NEWS	Denbigh Blvd Bridge Replacement over I-64 & CSX Railroad	Rickneck Rd	Trailblazer Blvd	Reconstruct bridge	4	4	Y	Y	Y
91687	NEWPORT NEWS	Fort Eustis Blvd Bridge Replacement over CSX Railroad	I-64	Lee Hall Reservoir	Reconstruct bridge	4	4	Y	Y	Y
94832	NEWPORT NEWS	Huntington Ave Bridge Replacement over Northrup Grumman Railroad Spur	39th St	41st St	Reconstruct bridge	5	5	Y	Y	Y
11816	NEWPORT NEWS	Middle Ground Blvd	Jefferson Ave	Warwick Blvd	New Alignment	0	4	Y	Y	Y
85955	NEWPORT NEWS	Washington Ave Bridge Replacement	39th St	41st St	Reconstruct bridge	4	4	Y	Y	Y

Source: HRTPO Hampton Roads 2034 LRTP Technical Appendices

Appendix C: List of Transportation Projects through the Year 2018 included in the 20-Year Forecast Model Run

UPC	JURISDICTION	FACILITY	FROM	TO	IMPROVEMENT TYPE	EXISTING LANES	PROPOSED LANES	IN FY12-15 TIP	IN 2034 LRTP	COMMITTED
NORFOLK										
14672	NORFOLK	Hampton Blvd (RTE 337) Railroad Grade Separation	Rogers Ave	B Ave	Reconstruct underpass	n.a.	n.a.	Y	Y	Y
18968	NORFOLK	I-564 Intermodal Connector	I-564	Norfolk Naval Base/NIT/Chambers Field (Hampton Blvd)	New Alignment	0	4	Y	Y	Y
17824	NORFOLK	I-64 Interchange at Norview Ave	n.a.	n.a.	Add Movement	n.a.	n.a.	Y	Y	Y
9783	NORFOLK	Military Hwy (RTE 13)	Lowery Rd	0.3 mi S. of Northampton Blvd	Widening	4	6	Y	Y	Y
84243	NORFOLK	Military Hwy (RTE 13)	Robin Hood Rd	0.3 mi N of Northampton Blvd	Widening	4	6	Y	Y	Y
1765	NORFOLK	Military Hwy (RTE 165)@ Northampton Blvd Continuous Flow Interchange	n.a.	n.a.	New Alignment	n.a.	n.a.	Y	Y	
52147	NORFOLK	Wesleyan Dr	Northampton Blvd	Virginia Beach City Line	Widening	2	4	Y	Y	Y
PORTSMOUTH										
	PORTSMOUTH	Craney Island Connector	VA-164	Craney Island Marine Terminal (Future)	New Roadway	0	2	N	Y	
65655/3950	PORTSMOUTH	Turnpike Rd (RTE 337)	0.13 mi E. of Frederick Blvd	Constitution Ave	Widening	2	4	Y	Y	Y
SUFFOLK										
17568	SUFFOLK	Nansemond Pkwy	Helen St	Norfolk Southern Railroad	Widening	2	4	Y	Y	Y
61407	SUFFOLK	Nansemond Pkwy	Chesapeake City Line	Helen St	Widening	2	4	Y	Y	Y
VIRGINIA BEACH										
15828	VIRGINIA BEACH	Elbow Rd / Dam Neck Rd	Indian River Rd	Virginia Beach Amphitheater	Widening	2	4	Y	Y	
80157/94544/95554	VIRGINIA BEACH	I-264 Interchange at London Bridge Rd	n.a.	n.a.	Add Ramps/Reconstruct	n.a.	n.a.	Y	Y	Y
15829	VIRGINIA BEACH	Indian River Rd	Lynnhaven Pkwy	Elbow Rd	Widening	2	4	Y	Y	
51866	VIRGINIA BEACH	Kempsville Rd Intersection at Princess Anne Rd	n.a.	n.a.	New Alignment	n.a.	n.a.	Y	Y	Y
12546	VIRGINIA BEACH	Laskin Rd (RTE 58)	Republic Road	Oriole Dr	Widening	4	6	Y	Y	
14601	VIRGINIA BEACH	Laskin Rd (RTE 58)	0.32 MILES EAST OF BIRDNECK ROAD (Oriole Dr)	0.247 MILES WEST OF PACIFIC AVENUE (30th/31st St)	Widening	4	6	Y	Y	
97737	VIRGINIA BEACH	Lesner Bridge	E. Stratford Rd (bridge approach)	Page Ave	Reconstruct bridge	4	4	N	Y	
14603	VIRGINIA BEACH	Lynnhaven Pkwy	Indian River Rd	Centerville Tnpg	New Alignment	0	4	Y	Y	
52058	VIRGINIA BEACH	Nimmo Pkwy	Holland Rd	General Booth Blvd	New Alignment	0	4	Y	Y	Y
13482/93522/95555/96137	VIRGINIA BEACH	Princess Anne Rd & Nimmo Pkwy	Dam Neck Rd	Holland Rd	Widening	2,0	4	Y	Y	Y
52148	VIRGINIA BEACH	Wesleyan Dr	Norfolk City Line	Baker Rd	Widening	2	4	Y	Y	Y
55202	VIRGINIA BEACH	Witchduck Rd	I-264	Virginia Beach Blvd	Widening	4	6	Y	Y	
55200/93254	VIRGINIA BEACH	Witchduck Rd	BONNEY ROAD	GRAYSON ROAD	Widening	4	6	Y	Y	Y
VB 2-107	VIRGINIA BEACH	Seaboard Rd	Princess Anne Rd	Nimmo Pkwy	New Alignment	0	2	N	Y	

Source: HRTPO Hampton Roads 2034 LRTP Technical Appendices

Appendix C: List of Transportation Projects through the Year 2018 included in the 20-Year Forecast Model Run

UPC	JURISDICTION	FACILITY	FROM	TO	IMPROVEMENT TYPE	EXISTING LANES	PROPOSED LANES	IN FY12-15 TIP	IN 2034 LRTP	COMMITTED
VB 2-016	VIRGINIA BEACH	First Colonial Rd	Old Donation Pkwy	Virginia Beach Blvd	Widening	4	6	N	Y	
VB 2-005	VIRGINIA BEACH	Centerville Tnpk	Indian River Rd	Kempsville Rd	Widening	2	6	N	Y	
VB 2-403	VIRGINIA BEACH	Centerville Tnpk	Kempsville Rd	Chesapeake City Line	Widening	2	4	N	Y	
VB 2-501	VIRGINIA BEACH	Nimmo Pkwy	Indian River Rd	West Neck Pkwy Extended	New Alignment	0	2	N	Y	
VB 2-195	VIRGINIA BEACH	Princess Anne Rd	Upton Dr	General Booth Blvd	Widening	2	4	N	Y	
VB 2-XXX	VIRGINIA BEACH	Cleveland St	Witchduck Road	Clearfield Ave	Widening	2	4	N	Y	
84366	VIRGINIA BEACH	Kempsville Rd Intersection at Indian River Rd	n.a.	n.a.	New Alignment	n.a.	n.a.	Y	Y	
VB 2-118	VIRGINIA BEACH	Shore Dr	Marlin Bay Drive/Sandy Oaks Drive	E. Stratford Rd (bridge approach)	Widening	4	6	N	Y	
VB 2-117	VIRGINIA BEACH	Shore Dr	Page Ave	Great Neck Rd	Widening	4	6	N	Y	
VB 2-072	VIRGINIA BEACH	First Colonial Rd Intersection at Virginia Beach Blvd	n.a.	n.a.	New Alignment	n.a.	n.a.	N	Y	

YORK COUNTY

60843	YORK COUNTY	Route 17 (GW Mem Hwy)	1.27 mi S. of Lakeside Dr (Hampton Hwy)	1.52 mi N. of Lakeside Dr (Dare Rd)	Widening	4	6	Y	Y	
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TRANSIT

HRT0073	TRANSIT	Conventional Passenger Rail	Norfolk	Richmond/Northeast Corridor	Upgrade	n.a.	n.a.	Y	Y	Y
T1822	HRT - DRPT	HRT Project - Norfolk LRT - 8 mile/11 stations - PE Phase				n/a	n/a	Y	N	
T9853	Norfolk	ARRA Norfolk Light Rail - Enhance facilities/stations	Virginia Medical Center	Newtown Road		n/a	n/a	Y	N	

Source: HRTPO Hampton Roads 2034 LRTP Technical Appendices

APPENDIX D:
TRUCK DELAY BY LOCATION (20-YEAR FORECAST) &
WEEKDAY TRUCK VOLUMES (2010 EXISTING AND 20-YEAR FORECAST)

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
JCC	I-64	NEW KENT CL	RTE 30	EW	5,165	7,932	2,767	2.1	12.1	4.2	2.3	20.7	3.4	12.1	2.6	2.3	20.3	5.5	24.2	6.8	4.5	41.0
JCC	I-64	RTE 30	CROAKER RD (RTE 607)	EW	5,871	8,885	3,014	9.3	47.7	16.5	8.9	82.4	12.6	45.0	11.4	9.0	78.0	21.9	92.6	27.9	17.9	160.4
JCC	I-64	CROAKER RD (RTE 607)	YORK CL	EW	6,607	9,804	3,197	20.8	54.7	21.8	7.5	104.9	11.2	45.4	25.3	7.6	89.6	32.0	100.2	47.1	15.2	194.5
YC	I-64	JAMES CITY CL	RTE 199/646	EW	6,607	9,804	3,197	18.1	48.0	19.1	6.4	91.6	9.5	39.6	21.8	6.4	77.4	27.7	87.6	41.0	12.8	169.0
YC	I-64	RTE 199/646	RTE 143	EW	5,965	9,020	3,055	37.8	91.5	40.3	14.9	184.5	25.1	80.6	41.7	15.8	163.2	62.9	172.1	82.0	30.7	347.7
YC	I-64	RTE 143	RTE 199 (EAST OF WILLIAMSBURG)	EW	7,450	10,557	3,107	15.5	47.6	21.8	9.6	94.5	23.5	66.4	21.5	12.9	124.3	39.0	114.0	43.3	22.5	218.8
YC	I-64	RTE 199 (EAST OF WILLIAMSBURG)	GROVE CONNECTOR	EW	4,390	7,945	3,555	9.3	30.4	18.4	5.2	63.4	11.2	30.5	11.5	4.3	57.5	20.5	60.9	29.9	9.6	120.9
YC	I-64	GROVE CONNECTOR	JAMES CITY CL	EW	4,613	7,555	2,942	6.7	22.8	14.5	5.0	48.9	13.7	28.0	9.0	4.3	55.0	20.4	50.8	23.5	9.2	103.9
JCC	I-64	YORK CL	NEWPORT NEWS CL	EW	4,613	7,555	2,942	18.9	63.8	40.5	13.9	137.0	38.2	78.4	25.3	11.9	153.9	57.1	142.2	65.8	25.8	290.9
NN	I-64	JAMES CITY CL	RTE 143 (NORTH)	EW	4,613	7,211	2,598	0.5	2.1	0.9	0.5	4.0	4.3	8.9	2.9	1.4	17.5	4.8	11.0	3.8	1.9	21.5
NN	I-64	RTE 143 (NORTH)	YORKTOWN RD	EW	4,584	7,043	2,459	3.3	12.7	9.2	2.4	27.6	4.8	10.2	2.7	1.9	19.6	8.0	22.9	11.9	4.3	47.2
NN	I-64	YORKTOWN RD	FORT EUSTIS BLVD	EW	4,953	7,468	2,515	14.5	46.2	37.0	9.4	107.1	29.4	56.7	23.0	9.3	118.4	44.0	102.8	60.0	18.7	225.5
NN	I-64	FORT EUSTIS BLVD	JEFFERSON AVE	EW	5,433	7,743	2,310	96.3	188.2	100.2	24.4	409.0	50.1	127.6	90.6	20.4	288.7	146.3	315.8	190.9	44.8	697.7
NN	I-64	JEFFERSON AVE	OYSTER POINT RD	EW	6,680	9,217	2,537	1.6	5.3	2.1	1.1	10.1	1.6	5.8	1.7	0.9	10.0	3.2	11.1	3.8	2.0	20.1
NN	I-64	OYSTER POINT RD	J C MORRIS BLVD	EW	7,037	9,627	2,590	3.4	8.4	4.0	1.4	17.2	2.5	9.1	4.6	2.3	18.5	5.8	17.5	8.6	3.8	35.7
NN	I-64	J C MORRIS BLVD	HAMPTON CL	EW	8,704	10,469	1,765	3.6	7.6	3.9	1.9	17.0	2.0	6.9	3.7	1.1	13.7	5.7	14.4	7.6	3.0	30.7
HAM	I-64	NEWPORT NEWS CL	HRC PARKWAY	EW	8,704	10,469	1,765	7.9	17.2	8.6	4.3	37.9	5.1	17.1	9.1	2.9	34.2	13.0	34.3	17.7	7.1	72.1
HAM	I-64	HRC PARKWAY	MAGRUDER BLVD	EW	7,733	9,483	1,750	1.3	4.4	1.5	0.8	7.9	0.9	6.5	1.5	1.2	10.1	2.2	10.9	3.0	2.0	18.0
HAM	I-64	MAGRUDER BLVD	MERCURY BLVD	EW	7,931	9,801	1,870	3.1	8.1	3.4	1.7	16.4	1.6	6.8	4.0	1.8	14.1	4.7	14.9	7.4	3.5	30.5
HAM	I-64	MERCURY BLVD	I-664	EW	7,776	9,509	1,733	7.2	10.9	5.5	1.9	25.6	1.3	9.6	2.3	1.3	14.5	8.6	20.5	7.8	3.2	40.1
HAM	I-64	I-664	ARMISTEAD AVE	EW	4,571	5,181	610	0.6	2.0	0.6	0.4	3.6	0.8	2.7	1.5	0.7	5.7	1.4	4.7	2.1	1.1	9.4
HAM	I-64	ARMISTEAD AVE	RIP RAP RD	EW	3,830	4,246	416	0.9	2.8	1.2	0.5	5.4	0.4	1.1	0.5	0.3	2.4	1.3	3.9	1.8	0.8	7.8
HAM	I-64	RIP RAP RD	SETTLERS LANDING RD	EW	3,830	4,264	434	2.2	5.6	2.4	1.0	11.3	1.7	4.4	2.7	1.0	9.8	4.0	10.1	5.1	2.0	21.1
HAM	I-64	SETTLERS LANDING RD	MALLORY ST	EW	3,518	3,914	396	11.1	9.7	3.8	1.1	25.6	0.4	1.0	0.9	0.3	2.5	11.4	10.6	4.7	1.3	28.1
HAM	I-64/HRBT	MALLORY ST	NORFOLK CL	EW	3,276	3,668	392	85.2	62.7	24.7	6.6	179.2	11.8	35.8	81.7	11.2	140.5	97.0	98.5	106.4	17.9	319.7
NOR	I-64/HRBT	HAMPTON CL	OCEAN VIEW AVE	EW	3,276	3,668	392	4.4	3.2	1.3	0.3	9.2	0.6	1.8	4.2	0.6	7.2	5.0	5.1	5.5	0.9	16.5
NOR	I-64	OCEAN VIEW AVE	4TH VIEW AVE	EW	3,279	3,549	270	19.1	22.3	8.9	3.0	53.3	4.2	10.8	9.3	2.9	27.1	23.3	33.1	18.2	5.9	80.4
NOR	I-64	4TH VIEW AVE	BAY AVE	EW	3,078	3,110	32	1.7	5.3	1.3	0.9	9.3	1.0	3.8	2.0	1.1	7.9	2.7	9.1	3.4	2.0	17.2
NOR	I-64	BAY AVE	GRANBY ST	EW	3,435	3,430	(5)	4.0	13.8	4.4	2.3	24.6	3.1	9.9	5.2	2.7	20.8	7.1	23.7	9.6	5.0	45.4
NOR	I-64	GRANBY ST	I-564/LITTLE CREEK RD	EW	3,435	3,553	118	0.2	0.1	0.2	0.0	0.5	0.2	0.1	0.3	0.0	0.6	0.3	0.3	0.5	0.1	1.2
NOR	I-64	I-564/LITTLE CREEK RD	TIDEWATER DR	EW	3,859	3,890	31	0.3	0.5	1.3	0.2	2.3	1.3	0.5	0.6	0.2	2.6	1.6	1.0	1.9	0.3	4.9
NOR	I-64	TIDEWATER DR	CHESAPEAKE BLVD	EW	4,122	4,056	(66)	0.8	0.7	2.6	0.1	4.3	2.3	0.7	1.3	0.1	4.4	3.1	1.4	3.9	0.3	8.8
NOR	I-64	CHESAPEAKE BLVD	NORVIEW AVE	EW	4,382	4,300	(82)	1.2	0.9	2.8	0.2	5.0	2.5	0.8	1.8	0.2	5.3	3.7	1.7	4.5	0.3	10.3
NOR	I-64	NORVIEW AVE	MILITARY HWY	EW	4,828	4,772	(56)	2.7	2.1	9.8	0.4	14.9	4.1	1.4	3.2	0.3	9.0	6.8	3.5	13.0	0.6	23.9
NOR	I-64	MILITARY HWY	NORTHAMPTON BLVD	EW	3,938	3,817	(121)	0.8	0.8	2.9	0.2	4.7	3.0	0.9	1.6	0.2	5.7	3.8	1.7	4.5	0.3	10.3
NOR	I-64	NORTHAMPTON BLVD	I-264	EW	5,437	5,323	(114)	1.2	2.5	3.1	0.5	7.3	3.2	3.5	2.3	0.6	9.5	4.4	6.0	5.4	1.1	16.8
NOR	I-64	I-264	VA BEACH CL	EW	4,955	5,739	784	0.6	2.7	3.1	0.6	7.0	1.8	3.4	0.7	0.4	6.3	2.4	6.1	3.8	1.0	13.3
VB	I-64	NORFOLK CL	INDIAN RIVER RD	EW	4,955	5,740	785	1.1	8.1	3.4	1.0	13.5	2.0	4.8	1.1	0.7	8.6	3.1	12.8	4.5	1.6	22.1
VB	I-64	INDIAN RIVER RD	CHESAPEAKE CL	EW	4,360	5,317	957	1.4	3.8	2.3	0.9	8.3	1.5	3.2	1.2	0.6	6.5	2.9	7.0	3.4	1.5	14.8
CHES	I-64	VA BEACH CL	GREENBRIER PKWY	EW	4,360	5,317	957	1.3	5.1	2.1	0.6	9.1	1.4	3.1	1.1	0.6	6.2	2.7	8.2	3.2	1.2	15.3
CHES	I-64	GREENBRIER PKWY	BATTLEFIELD BLVD	EW	4,226	5,297	1,071	0.5	1.1	0.7	0.3	2.6	0.8	1.6	0.6	0.3	3.4	1.3	2.7	1.3	0.6	5.9
CHES	I-64	BATTLEFIELD BLVD	I-464	EW	6,374	7,390	1,016	1.1	2.6	1.9	0.6	6.2	0.8	1.3	0.6	0.3	3.0	1.9	4.0	2.5	0.9	9.2
CHES	I-64	I-464	GEORGE WASHINGTON HWY	EW	7,835	9,328	1,493	22.5	76.4	146.9	12.0	257.9	146.8	95.3	51.4	12.3	305.9	169.4	171.7	198.3	24.3	563.8
CHES	I-64	GEORGE WASHINGTON HWY	MILITARY HWY	EW	7,220	8,710	1,490	8.3	17.2	18.1	2.8	46.4	19.7	16.0	13.4	3.7	52.8	28.0	33.2	31.5	6.5	99.2
CHES	I-64	MILITARY HWY	I-264&664	EW	6,989	7,935	946	4.4	8.9	8.0	1.6	22.9	7.1	7.3	5.6	2.3	22.3	11.5	16.2	13.6	3.9	45.2
CHES	I-264	I-64&664	WCL PORTSMOUTH	EW	2,616	2,003	(613)	2.3	0.8	0.5	0.1	3.7	0.2	0.6	5.2	0.1	6.1	2.5	1.4	5.7	0.2	9.8
PORT	I-264	WCL PORTSMOUTH	GREENWOOD DR	EW	2,616	1,996	(620)	0.9	0.3	0.2	0.0	1.4	0.1	0.2	1.9	0.0	2.3	0.9	0.5	2.1	0.1	3.6
PORT	I-264	GREENWOOD DR	VICTORY BLVD	EW	2,564	1,267	(1,297)	0.4	0.5	0.1	0.0	1.0	0.0	0.3	0.5	0.0	0.8	0.4	0.7	0.5	0.1	1.8

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay Weekday (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay Weekday (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay Weekday (hours)
PORT	I-264	VICTORY BLVD	PORTSMOUTH BLVD	EW	2,876	1,238	(1,638)	0.3	0.3	0.0	0.0	0.7	0.0	0.1	0.1	0.0	0.2	0.3	0.4	0.1	0.0	0.9
PORT	I-264	PORTSMOUTH BLVD	FREDERICK BLVD	EW	3,075	1,338	(1,737)	0.1	0.2	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.4	0.1	0.4	0.2	0.1	0.8
PORT	I-264	FREDERICK BLVD	FUTURE MLK FWY	EW	3,624	1,653	(1,971)	0.1	0.1	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.4	0.1	0.3	0.2	0.1	0.6
PORT	I-264	FUTURE MLK FWY	DES MOINES AVE	EW	3,624	1,946	(1,678)	0.2	0.5	0.1	0.0	0.9	0.0	0.1	0.1	0.0	0.2	0.2	0.6	0.2	0.1	1.1
PORT	I-264	DES MOINES AVE	EFFINGHAM ST	EW	3,360	2,079	(1,281)	0.3	0.5	0.1	0.1	0.9	0.0	0.4	0.3	0.1	0.8	0.3	0.9	0.4	0.1	1.7
PORT	I-264/DOWNTOWN TUNNEL	EFFINGHAM ST	NORFOLK CL	EW	4,420	2,391	(2,029)	9.1	7.4	0.7	0.2	17.5	0.1	3.8	14.4	0.6	18.9	9.3	11.2	15.1	0.8	36.4
NOR	I-264/DOWNTOWN TUNNEL	PORTSMOUTH CL	I-464	EW	4,420	2,391	(2,029)	5.1	4.1	0.4	0.1	9.7	0.1	2.1	8.0	0.3	10.5	5.1	6.2	8.4	0.5	20.2
NOR	I-264/BERKLEY BRIDGE	I-464	WATERSIDE/CITY HALL/TIDEWATER	EW	3,194	2,594	(600)	4.9	2.5	0.6	0.3	8.3	0.2	1.4	3.1	0.3	5.0	5.1	3.9	3.7	0.6	13.3
NOR	I-264	WATERSIDE/CITY HALL/TIDEWATER	BRAMBLETON AVE	EW	3,137	2,502	(635)	0.3	0.8	0.5	0.1	1.8	0.2	0.7	0.7	0.1	1.7	0.5	1.5	1.2	0.3	3.5
NOR	I-264	BRAMBLETON AVE	BALLENTINE BLVD	EW	3,920	3,289	(631)	0.8	1.3	0.7	0.2	2.9	0.3	1.3	1.3	0.3	3.1	1.1	2.6	1.9	0.5	6.0
NOR	I-264	BALLENTINE BLVD	MILITARY HWY	EW	4,042	3,476	(566)	2.0	3.5	1.9	0.5	7.9	0.8	2.7	2.8	0.5	6.7	2.7	6.2	4.7	1.0	14.6
NOR	I-264	MILITARY HWY	I-64	EW	4,000	3,485	(515)	0.3	0.5	0.3	0.1	1.2	0.2	0.5	0.7	0.1	1.5	0.5	1.1	1.0	0.2	2.8
NOR	I-264	I-64	NEWTOWN RD/WCL VA. BEACH	EW	6,218	6,009	(209)	1.2	3.1	1.5	0.6	6.3	0.6	2.0	1.3	0.4	4.3	1.8	5.1	2.7	1.0	10.6
VB	I-264	NEWTOWN RD/ECL NORFOLK	WITCHDUCK RD	EW	5,204	5,024	(180)	3.4	5.7	1.9	1.7	12.6	4.1	12.0	12.1	2.0	30.2	7.4	17.8	13.9	3.7	42.8
VB	I-264	WITCHDUCK RD	INDEPENDENCE BLVD	EW	5,104	4,950	(154)	2.3	6.2	2.8	1.0	12.3	1.4	4.8	3.5	0.9	10.7	3.7	11.0	6.3	1.9	23.0
VB	I-264	INDEPENDENCE BLVD	ROSEMONT RD	EW	4,070	4,044	(26)	2.4	4.2	2.2	0.6	9.4	1.1	3.1	2.1	0.6	6.9	3.5	7.3	4.3	1.2	16.3
VB	I-264	ROSEMONT RD	LYNNHAVEN PKWY	EW	3,517	3,772	255	2.5	4.4	2.1	0.8	9.7	1.0	3.1	2.1	0.6	6.8	3.5	7.5	4.2	1.4	16.5
VB	I-264	LYNNHAVEN PKWY	LONDON BRIDGE RD	EW	3,073	3,841	768	0.7	1.4	0.7	0.3	3.1	0.3	0.8	0.6	0.2	1.9	1.0	2.2	1.3	0.4	5.0
VB	I-264	LONDON BRIDGE RD	LASKIN RD	EW	3,073	3,016	(57)	0.5	1.0	0.5	0.2	2.3	0.2	0.6	0.4	0.1	1.3	0.7	1.6	0.9	0.4	3.6
VB	I-264	LASKIN RD	FIRST COLONIAL RD	EW	1,608	1,593	(15)	0.2	0.4	0.2	0.1	0.9	0.1	0.3	0.2	0.1	0.7	0.3	0.7	0.4	0.1	1.6
VB	I-264	FIRST COLONIAL RD	S.E. PARKWAY LOCATION	EW	1,537	1,605	68	0.2	0.4	0.2	0.1	0.8	0.1	0.3	0.2	0.1	0.6	0.3	0.7	0.3	0.1	1.4
VB	I-264	S.E. PARKWAY LOCATION	BIRDNECK RD	EW	1,537	1,605	68	0.1	0.2	0.1	0.0	0.5	0.1	0.2	0.1	0.0	0.4	0.2	0.4	0.2	0.1	0.8
VB	I-264	BIRDNECK RD	PARKS AVE	EW	760	812	52	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1
CHES	I-464	I-64	MILITARY HWY	NS	2,758	3,676	918	0.4	0.9	0.5	0.2	2.0	0.3	0.8	0.4	0.1	1.6	0.6	1.8	0.8	0.3	3.6
CHES	I-464	MILITARY HWY	FREEMAN AVE	NS	2,447	3,091	644	0.2	0.6	0.3	0.1	1.2	0.2	0.6	0.3	0.1	1.3	0.4	1.2	0.6	0.3	2.5
CHES	I-464	FREEMAN AVE	POINDEXTER ST	NS	2,410	3,035	625	0.8	1.5	0.8	0.4	3.5	0.3	1.1	0.7	0.3	2.4	1.1	2.6	1.4	0.6	5.8
CHES	I-464	POINDEXTER ST	NORFOLK CL	NS	2,432	3,097	665	2.1	1.7	0.6	0.4	4.7	0.3	1.3	1.2	0.3	3.1	2.4	2.9	1.8	0.7	7.8
NOR	I-464	CHESAPEAKE CL	SOUTH MAIN ST	NS	2,432	3,097	665	1.3	1.0	0.4	0.2	2.9	0.2	0.7	0.7	0.2	1.8	1.4	1.8	1.1	0.4	4.7
NOR	I-464	SOUTH MAIN ST	I-264	NS	2,294	2,998	704	1.5	1.2	0.4	0.3	3.4	0.2	0.9	0.6	0.2	2.0	1.7	2.2	1.1	0.5	5.4
NOR	I-564	ADMIRAL TAUSSIG BLVD	FUTURE INTERMODAL CONNECTOR	NS	987	497	(490)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
NOR	I-564	FUTURE INTERMODAL CONNECTOR	INTERNATIONAL TERMINAL BLVD	NS	987	757	(230)	0.2	0.1	0.0	0.0	0.4	0.0	0.1	0.2	0.0	0.3	0.2	0.2	0.3	0.1	0.7
NOR	I-564	INTERNATIONAL TERMINAL BLVD	I-64	NS	1,637	1,399	(238)	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.4
CHES	I-664	I-64 & I-264	ROUTES 13/58/460	EW	8,277	7,937	(340)	2.9	2.9	1.5	0.6	7.9	0.9	3.0	3.3	0.6	7.8	3.8	5.9	4.8	1.2	15.7
CHES	I-664	ROUTES 13/58/460	DOCK LANDING RD	EW	6,550	7,450	900	27.5	13.4	8.8	2.1	51.8	3.1	8.4	25.2	1.8	38.5	30.6	21.8	34.0	3.9	90.3
CHES	I-664	DOCK LANDING RD	PORTSMOUTH BLVD	EW	6,474	7,355	881	10.9	9.5	9.3	1.8	31.5	3.2	5.8	9.8	1.2	19.9	14.1	15.3	19.1	2.9	51.4
CHES	I-664	PORTSMOUTH BLVD	PUGHSVILLE RD	EW	6,122	6,964	842	9.0	8.4	7.2	1.8	26.5	3.6	7.2	9.4	1.5	21.8	12.6	15.6	16.6	3.4	48.2
CHES	I-664	PUGHSVILLE RD	SUFFOLK CL	EW	5,471	6,471	1,000	1.0	1.4	1.0	0.3	3.7	0.8	1.4	1.1	0.3	3.6	1.8	2.8	2.1	0.6	7.3
SUF	I-664	CHESAPEAKE CL	BRIDGE RD	EW	5,471	6,471	1,000	6.6	3.9	8.3	0.7	19.6	3.1	3.6	8.0	0.7	15.5	9.8	7.6	16.3	1.4	35.0
SUF	I-664	BRIDGE RD	WESTERN FWY	EW	3,904	4,563	659	0.2	0.2	0.2	0.0	0.5	0.2	0.3	0.4	0.1	0.9	0.4	0.4	0.5	0.1	1.4
SUF	I-664	WESTERN FWY	COLLEGE DR	EW	4,318	4,797	479	0.8	1.0	0.9	0.2	2.9	0.8	1.1	1.4	0.3	3.6	1.7	2.1	2.3	0.5	6.5
SUF	I-664/MMMBT	COLLEGE DR	NEWPORT NEWS CL	EW	4,344	4,639	295	7.7	4.7	12.0	1.2	25.6	7.0	5.0	11.0	1.1	24.1	14.7	9.7	23.0	2.2	49.7
NN	I-664/MMMBT	SUFFOLK CL	TERMINAL AVE	EW	4,344	4,639	295	8.8	4.7	15.5	1.1	30.1	7.8	4.9	13.6	1.1	27.4	16.7	9.6	29.1	2.2	57.5
NN	I-664	TERMINAL AVE	23RD ST	EW	4,306	4,673	367	1.6	1.2	2.4	0.3	5.5	0.7	0.8	0.9	0.2	2.5	2.4	1.9	3.2	0.5	8.0
NN	I-664	23RD ST	CHESTNUT AVE	EW	4,730	5,495	765	1.6	2.2	1.3	0.5	5.6	0.8	1.5	1.5	0.4	4.2	2.3	3.7	2.9	0.8	9.7
NN	I-664	CHESTNUT AVE	HAMPTON CL	EW	5,207	6,291	1,084	0.3	0.4	0.3	0.1	1.1	0.2	0.5	0.4	0.1	1.1	0.5	0.9	0.6	0.2	2.1
HAM	I-664	NEWPORT NEWS CL	ABERDEEN RD	EW	5,207	6,291	1,084	0.5	0.8	0.5	0.2	1.9	0.3	0.8	0.7	0.2	2.0	0.8	1.6	1.1	0.3	3.9
HAM	I-664	ABERDEEN RD	POWER PLANT PKWY	EW	4,893	6,020	1,127	1.4	2.2	1.3	0.5	5.3	0.9	2.4	1.9	0.5	5.6	2.3	4.6	3.1	1.0	10.9
HAM	I-664	POWER PLANT PKWY	I-64	EW	5,746	6,816	1,070	1.1	2.1	1.1	0.5	4.7	0.9	2.5	1.8	0.6	5.7	2.0	4.6	2.9	1.0	10.5

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

					2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
Juris	Facility Name	Segment From	Segment To	Dir																		
CHES	22ND ST	LIBERTY ST	BERKLEY AVE/NORFOLK CL	EW	184	-	(184)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	AIRLINE BLVD	I-664	JOLLIFF RD	EW	261	649	388	-	-	-	-	-	-	-	-	-	-	0.7	0.5	0.7	0.1	2.1
CHES	AIRLINE BLVD	JOLLIFF RD	PORTSMOUTH CL	EW	166	123	(43)	-	-	-	-	-	-	-	-	-	-	0.3	0.2	0.3	0.1	0.9
CHES	ATLANTIC AVE	CAMPOSTELLA RD	PROVIDENCE RD	NS	498	625	127	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
CHES	ATLANTIC AVE	PROVIDENCE RD	OLD ATLANTIC AVE	NS	568	710	142	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.1	1.6
CHES	ATLANTIC AVE	OLD ATLANTIC AVE	CAMPOSTELLA RD	NS	311	487	176	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6
CHES	BAINBRIDGE BLVD	DOMINION BLVD	GREAT BRIDGE BLVD	NS	355	752	397	-	-	-	-	-	-	-	-	-	-	1.8	2.6	1.7	0.3	6.4
CHES	BAINBRIDGE BLVD	GREAT BRIDGE BLVD	MILITARY HWY	NS	746	1,210	464	-	-	-	-	-	-	-	-	-	-	0.9	1.7	0.9	0.2	3.7
CHES	BAINBRIDGE BLVD	MILITARY HWY	FREEMAN AVE	NS	338	493	155	-	-	-	-	-	-	-	-	-	-	0.8	1.7	1.9	0.5	4.9
CHES	BAINBRIDGE BLVD	FREEMAN AVE	SWAIN AVE	NS	260	345	85	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
CHES	BAINBRIDGE BLVD	SWAIN AVE	CHESAPEAKE DR	NS	260	336	76	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	BAINBRIDGE BLVD	CHESAPEAKE DR	POINDEXTER ST	NS	235	244	9	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	BAINBRIDGE BLVD	POINDEXTER ST	NORFOLK CL	NS	38	54	16	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	BALLAHACK RD	GEORGE WASHINGTON HWY	OLD BATTLEFIELD BLVD	EW	13	95	82	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.8
CHES	BATTLEFIELD BLVD	NORTH CAROLINA STATE LINE	BALLAHACK RD	NS	738	1,130	392	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
CHES	BATTLEFIELD BLVD	BALLAHACK RD	GALLBUSH RD	NS	738	1,089	351	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.8
CHES	BATTLEFIELD BLVD	GALLBUSH RD	INDIAN CREEK RD	NS	539	512	(27)	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.3	0.2	1.5
CHES	BATTLEFIELD BLVD	INDIAN CREEK RD	CENTERVILLE TNP	NS	670	813	143	-	-	-	-	-	-	-	-	-	-	0.4	1.3	0.5	0.3	2.5
CHES	BATTLEFIELD BLVD	CENTERVILLE TNP	HILLCREST PKWY	NS	765	910	145	-	-	-	-	-	-	-	-	-	-	0.6	1.6	0.7	0.2	3.1
CHES	BATTLEFIELD BLVD	HILLCREST PKWY	PEACEFUL RD/HILLWELL RD	NS	118	422	304	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.8	0.1	2.3
CHES	BATTLEFIELD BLVD	PEACEFUL RD/HILLWELL RD	HANBURY RD	NS	118	380	262	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
CHES	BATTLEFIELD BLVD	HANBURY RD	JOHNSTOWN RD	NS	218	265	47	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.2
CHES	BATTLEFIELD BLVD	JOHNSTOWN RD	CEDAR RD	NS	473	762	289	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.4	0.1	1.3
CHES	BATTLEFIELD BLVD	CEDAR RD	GREAT BRIDGE BLVD/KEMPSVILLE RD	NS	548	749	201	-	-	-	-	-	-	-	-	-	-	2.3	8.8	3.6	1.2	15.8
CHES	BATTLEFIELD BLVD	GREAT BRIDGE BLVD/KEMPSVILLE RD	GREAT BRIDGE BYPASS	NS	558	792	234	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.1	0.1	0.7
CHES	BATTLEFIELD BLVD	GREAT BRIDGE BYPASS	VOLVO PKWY	NS	684	964	280	-	-	-	-	-	-	-	-	-	-	0.5	1.5	0.7	0.3	2.9
CHES	BATTLEFIELD BLVD	VOLVO PKWY	I-64	NS	916	979	63	-	-	-	-	-	-	-	-	-	-	1.0	2.8	1.5	0.4	5.8
CHES	BATTLEFIELD BLVD	I-64	MILITARY HWY	NS	1,863	2,005	142	-	-	-	-	-	-	-	-	-	-	2.5	5.5	2.5	0.9	11.5
CHES	BATTLEFIELD BLVD	MILITARY HWY	CAMPOSTELLA RD	NS	743	898	155	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
CHES	BENEFIT RD	JOHNSTOWN RD	SIGN PINE RD	EW	67	325	258	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.5	0.2	1.9
CHES	BLACKWATER RD	VIRGINIA BEACH CL	FENTRESS AIRFIELD RD	NS	117	106	(11)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
CHES	BRIDGE RD	SUFFOLK CL	CHURCHLAND BLVD	EW	266	344	78	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.2	0.0	0.4
CHES	BRUCE RD	TAYLOR RD	TYRE NECK RD	EW	87	104	17	-	-	-	-	-	-	-	-	-	-	0.3	0.9	0.3	0.2	1.7
CHES	BUTTS STATION RD	KEMPSVILLE RD	ELBOW RD	EW	171	273	102	-	-	-	-	-	-	-	-	-	-	0.6	1.5	0.8	0.3	3.2
CHES	BUTTS STATION RD	ELBOW RD	CENTERVILLE TNP	EW	171	273	102	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
CHES	CAMPOSTELLA RD	GREAT BRIDGE BLVD	MILITARY HWY	NS	135	181	46	-	-	-	-	-	-	-	-	-	-	0.4	1.2	0.6	0.2	2.4
CHES	CAMPOSTELLA RD	MILITARY HWY	BATTLEFIELD BLVD	NS	643	707	64	-	-	-	-	-	-	-	-	-	-	0.6	0.8	0.9	0.1	2.4
CHES	CAMPOSTELLA RD	BATTLEFIELD BLVD	PROVIDENCE RD	NS	572	669	97	-	-	-	-	-	-	-	-	-	-	0.6	1.5	0.8	0.2	3.1
CHES	CAMPOSTELLA RD	PROVIDENCE RD	ATLANTIC AVE	NS	550	576	26	-	-	-	-	-	-	-	-	-	-	0.6	1.7	0.6	0.4	3.3
CHES	CAMPOSTELLA RD	ATLANTIC AVE	NORFOLK CL/BERKELY AVE EXT	NS	547	783	236	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
CHES	CANAL DR	MILITARY HWY	GEORGE WASHINGTON HWY	NS	187	409	222	-	-	-	-	-	-	-	-	-	-	2.7	4.1	3.8	1.0	11.6
CHES	CAVALIER BLVD	MILITARY HWY	PORTSMOUTH CL	NS	1,569	1,997	428	-	-	-	-	-	-	-	-	-	-	3.9	2.4	4.8	0.4	11.6
CHES	CEDAR RD	SHIPYARD RD/MOSES GRANDY TR	SCENIC PKWY	EW	130	130	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
CHES	CEDAR RD	SCENIC PKWY	MOSES GRANDY TRAIL	EW	46	50	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	CEDAR RD	DOMINION BLVD	BELLS MILL RD (WEST)	EW	325	540	215	-	-	-	-	-	-	-	-	-	-	0.6	1.5	1.1	0.3	3.5
CHES	CEDAR RD	BELLS MILL RD (WEST)	BELLS MILL RD (EAST)	EW	350	528	178	-	-	-	-	-	-	-	-	-	-	1.1	2.9	1.7	0.5	6.2
CHES	CEDAR RD	BELLS MILL RD (EAST)	BRIARFIELD DR	EW	299	434	135	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
CHES	CEDAR RD	BRIARFIELD DR	BATTLEFIELD BLVD	EW	299	386	87	-	-	-	-	-	-	-	-	-	-	0.3	1.2	0.5	0.2	2.1
CHES	CENTERVILLE TNP	BATTLEFIELD BLVD	ETHRIDGE MANOR BLVD	NS	183	236	53	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.2	1.5
CHES	CENTERVILLE TNP	ETHRIDGE MANOR BLVD	MT PLEASANT RD	NS	180	231	51	-	-	-	-	-	-	-	-	-	-	0.4	0.8	0.5	0.2	1.9
CHES	CENTERVILLE TNP	MT PLEASANT RD	BUTTS STATION RD	NS	331	378	47	-	-	-	-	-	-	-	-	-	-	1.9	4.0	2.2	0.6	8.7
CHES	CENTERVILLE TNP	BUTTS STATION RD	ELBOW RD	NS	202	310	108	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.6
CHES	CENTERVILLE TNP	ELBOW RD	S.E. PARKWAY CORRIDOR	NS	154	262	108	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
CHES	CENTERVILLE TNP	S.E. PARKWAY CORRIDOR	VA BEACH CL	NS	154	317	163	-	-	-	-	-	-	-	-	-	-	1.0	2.7	1.3	0.5	5.5

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
CHES	CHESAPEAKE EXPRESSWAY	GALLBUSH RD	BATTLEFIELD BLVD (NEAR INDIAN CREEK)	NS	232	611	379	0.1	0.2	0.1	0.1	0.4	0.1	0.2	0.1	0.1	0.4	0.1	0.4	0.1	0.1	0.8
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (NEAR INDIAN CREEK)	HILLCREST PKWY	NS	231	610	379	0.1	0.2	0.1	0.1	0.4	0.1	0.2	0.1	0.1	0.4	0.1	0.4	0.1	0.1	0.8
CHES	CHESAPEAKE EXPRESSWAY	HILLCREST PKWY	BATTLEFIELD BLVD (S OF GREAT BRIDGE)	NS	829	1,482	653	0.7	1.5	0.5	0.3	3.0	0.1	0.4	0.2	0.1	0.7	0.8	1.8	0.7	0.4	3.7
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (S OF GREAT BRIDGE)	HANBURY RD	NS	865	1,519	654	0.2	0.5	0.2	0.1	1.0	0.0	0.1	0.1	0.0	0.2	0.3	0.6	0.2	0.1	1.2
CHES	CHESAPEAKE EXPRESSWAY	HANBURY RD	MT PLEASANT RD	NS	1,205	2,143	938	2.2	2.6	0.7	0.4	5.8	0.3	1.4	1.2	0.3	3.2	2.4	4.0	1.9	0.7	9.0
CHES	CHESAPEAKE EXPRESSWAY	MT PLEASANT RD	BATTLEFIELD BLVD (N OF GREAT BRIDGE)	NS	1,726	2,597	871	21.7	17.7	2.6	1.5	43.6	0.8	7.9	18.8	1.7	29.1	22.5	25.6	21.4	3.2	72.7
CHES	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD (N OF GREAT BRIDGE)	DOMINION BLVD	NS	1,821	2,496	675	4.1	5.3	2.8	0.9	13.2	1.5	7.9	7.8	1.7	18.9	5.7	13.1	10.6	2.6	32.1
CHES	CHESAPEAKE EXPRESSWAY	DOMINION BLVD	I-64	NS	3,205	4,189	984	3.5	2.5	0.9	0.4	7.2	0.5	3.7	4.4	0.6	9.2	4.0	6.1	5.3	1.0	16.4
CHES	CHURCHLAND BLVD	WESTERN BRANCH BLVD	TOWNE POINT RD	EW	53	35	(18)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	CHURCHLAND BLVD	TOWNE POINT RD	PORTSMOUTH CL	EW	99	195	96	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	DOCK LANDING RD	JOLLIFF RD	I-664	EW	49	133	84	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
CHES	DOCK LANDING RD	I-664	EAGLE HILL DR	EW	65	98	33	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
CHES	DOCK LANDING RD	EAGLE HILL DR	PORTSMOUTH BLVD	NS	57	63	6	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.7
CHES	DOMINION BLVD	GEORGE WASHINGTON HWY	CEDAR RD	NS	516	1,091	575	-	-	-	-	-	-	-	-	-	-	2.2	6.3	2.6	1.3	12.4
CHES	DOMINION BLVD/STEEL BRIDGE	CEDAR RD	BAINBRIDGE BLVD	NS	1,363	2,569	1,206	-	-	-	-	-	-	-	-	-	-	8.1	19.8	11.2	2.6	41.7
CHES	DOMINION BLVD	BAINBRIDGE BLVD	GREAT BRIDGE BLVD	NS	1,231	2,038	807	-	-	-	-	-	-	-	-	-	-	3.2	9.3	5.5	1.9	20.0
CHES	EDINBURGH PKWY/ST BRIDES RD	SIGN PINE RD	HILLCREST PKWY	NS	71	517	446	-	-	-	-	-	-	-	-	-	-	1.3	2.8	1.8	0.4	6.3
CHES	ELBOW RD	BUTTS STATION RD	CENTERVILLE TNPK	EW	20	-	(20)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	ELBOW RD	CENTERVILLE TNPK	VA BEACH CL	EW	34	-	(34)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	ETHERIDGE MANOR RD	HILLWELL RD	RIVER GATE RD	EW	56	142	86	-	-	-	-	-	-	-	-	-	-	0.7	1.7	0.9	0.3	3.6
CHES	ETHERIDGE MANOR RD	RIVER GATE RD	CENTERVILLE TPKE	EW	56	126	70	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
CHES	FENTRESS AIRFIELD RD	BLACKWATER RD	MOUNT PLEASANT RD	NS	260	249	(11)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	FREEMAN AVE	I-664	BAINBRIDGE BLVD	EW	253	342	89	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
CHES	GEORGE WASHINGTON HWY	NORTH CAROLINA STATE LINE	DOMINION BLVD	NS	936	1,554	618	-	-	-	-	-	-	-	-	-	-	2.2	6.4	2.4	1.7	12.7
CHES	GEORGE WASHINGTON HWY	DOMINION BLVD	GW HWY RELOCATED	NS	43	-	(43)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	GEORGE WASHINGTON HWY	GW HWY RELOCATED	MOSES GRANDY TR @ HINTON AVE	NS	43	-	(43)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	GW HWY (DEEP CREEK BRIDGE)	MOSES GRANDY TR @ HINTON AVE	MILL CREEK PKWY	NS	238	-	(238)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	GEORGE WASHINGTON HWY	MILL CREEK PKWY	WILLOWOOD DR	NS	245	-	(245)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	GEORGE WASHINGTON HWY	WILLOWOOD DR	I-64	NS	245	-	(245)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	GEORGE WASHINGTON HWY	I-64	MILITARY HWY	NS	996	989	(7)	-	-	-	-	-	-	-	-	-	-	0.7	1.5	1.1	0.3	3.6
CHES	GEORGE WASHINGTON HWY	MILITARY HWY	CANAL DR	NS	577	599	22	-	-	-	-	-	-	-	-	-	-	0.6	2.2	0.8	0.5	4.0
CHES	GEORGE WASHINGTON HWY	CANAL DR	PORTSMOUTH CL	NS	989	1,210	221	-	-	-	-	-	-	-	-	-	-	1.5	2.5	2.2	0.6	6.8
CHES	GREAT BRIDGE BLVD	BAINBRIDGE BLVD	CAMPOSTELLA RD	EW	400	421	21	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
CHES	GREAT BRIDGE BLVD	CAMPOSTELLA RD	I-64	EW	918	1,018	100	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.3
CHES	GREAT BRIDGE BLVD	I-64	DOMINION BLVD	EW	1,153	1,480	327	-	-	-	-	-	-	-	-	-	-	0.3	1.1	1.1	0.3	2.8
CHES	GREAT BRIDGE BLVD	DOMINION BLVD	RIVERWALK PKWY WEST	EW	247	373	126	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.9
CHES	GREAT BRIDGE BLVD	RIVERWALK PKWY WEST	BATTLEFIELD BLVD	EW	247	394	147	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.5	0.2	1.9
CHES	GREENBRIER PKWY	KEMPSVILLE RD	VOLVO PKWY	NS	342	487	145	-	-	-	-	-	-	-	-	-	-	1.2	3.5	1.3	0.5	6.5
CHES	GREENBRIER PKWY	VOLVO PKWY	EDEN WAY	NS	508	585	77	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.3
CHES	GREENBRIER PKWY	EDEN WAY	I-64	NS	934	920	(14)	-	-	-	-	-	-	-	-	-	-	2.0	6.9	4.3	0.7	13.9
CHES	GREENBRIER PKWY	I-64	WOODLAKE DR	NS	685	668	(17)	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.4	0.1	1.6
CHES	GREENBRIER PKWY	WOODLAKE DR	MILITARY HWY	NS	366	325	(41)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
CHES	HANBURY RD	JOHNSTOWN RD	BATTLEFIELD BLVD	EW	35	57	22	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.4
CHES	HANBURY RD	BATTLEFIELD BLVD	CHESAPEAKE EXPRESSWAY	EW	64	285	221	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
CHES	HANBURY RD	CHESAPEAKE EXPRESSWAY	HILLWELL RD	EW	102	190	88	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
CHES	HILLCREST PKWY	EDINBURGH PKWY	CHESAPEAKE EXPRESSWAY	EW	120	566	446	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.6
CHES	HILLCREST PKWY	CHESAPEAKE EXPRESSWAY	BATTLEFIELD BLVD	EW	230	523	293	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.7
CHES	INDIAN RIVER RD	NORFOLK CL	KEMP LANE	EW	274	257	(17)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	INDIAN RIVER RD	KEMP LANE	VA BEACH CL	EW	368	369	1	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	0.9

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
CHES	JOHNSTOWN RD	BENEFIT RD	STONEGATE PKWY	NS	33	281	248	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
CHES	JOHNSTOWN RD	STONEGATE PKWY	HANBURY RD	NS	33	355	322	-	-	-	-	-	-	-	-	-	-	1.2	3.6	1.4	0.9	7.1
CHES	JOHNSTOWN RD	HANBURY RD	PARKER RD	NS	33	336	303	-	-	-	-	-	-	-	-	-	-	0.5	0.8	0.5	0.2	2.0
CHES	JOHNSTOWN RD	PARKER RD	BATTLEFIELD BLVD	NS	33	281	248	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	0.9
CHES	JOLLIFF RD	AIRLINE BLVD	DOCK LANDING RD	NS	48	142	94	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.4	0.1	1.2
CHES	JOLLIFF RD	DOCK LANDING RD	PORTSMOUTH BLVD	NS	40	74	34	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.2	0.0	0.4
CHES	KEMPSVILLE RD	BATTLEFIELD BLVD	CHESAPEAKE EXPRESSWAY	EW	482	859	377	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.3	0.1	1.3
CHES	KEMPSVILLE RD	CHESAPEAKE EXPRESSWAY	GREENBRIER PKWY	EW	495	925	430	-	-	-	-	-	-	-	-	-	-	2.1	5.0	3.1	0.8	11.1
CHES	KEMPSVILLE RD	GREENBRIER PKWY	VOLVO PKWY	EW	205	503	298	-	-	-	-	-	-	-	-	-	-	0.9	1.9	1.4	0.3	4.6
CHES	KEMPSVILLE RD	VOLVO PKWY	VA BEACH CL	EW	291	69	(222)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
CHES	LIBERTY ST	SCL NORFOLK	22ND ST	EW	539	573	34	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	LIBERTY ST	22ND ST	POINDEXTER RD	EW	131	165	34	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
CHES	LIBERTY ST	POINDEXTER RD	OLD ATLANTIC AVE	EW	131	183	52	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	LIBERTY ST	OLD ATLANTIC AVE	CAMPOSTELLA RD	EW	86	138	52	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	MILITARY HWY	AIRLINE BLVD	I-64	EW	595	1,366	771	-	-	-	-	-	-	-	-	-	-	28.2	41.1	31.9	9.3	110.4
CHES	MILITARY HWY	I-64	CAVALIER BLVD	EW	396	963	567	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.1	0.7
CHES	MILITARY HWY	CAVALIER BLVD	GEORGE WASHINGTON HWY	EW	396	1,243	847	-	-	-	-	-	-	-	-	-	-	1.6	1.2	2.4	0.2	5.5
CHES	MILITARY HWY	GEORGE WASHINGTON HWY	CANAL DR	EW	375	1,337	962	-	-	-	-	-	-	-	-	-	-	1.9	1.6	2.3	0.3	6.0
CHES	MILITARY HWY/GILMERTON BRIDGE	CANAL DR	BAINBRIDGE BLVD	EW	588	1,564	976	-	-	-	-	-	-	-	-	-	-	19.6	18.7	22.0	4.2	64.5
CHES	MILITARY HWY	BAINBRIDGE BLVD	I-64	EW	801	1,589	788	-	-	-	-	-	-	-	-	-	-	2.1	2.0	2.6	0.4	7.1
CHES	MILITARY HWY	I-64	CAMPOSTELLA RD	EW	537	524	(13)	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.7
CHES	MILITARY HWY	CAMPOSTELLA RD	BATTLEFIELD BLVD	EW	578	618	40	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.5	0.1	1.4
CHES	MILITARY HWY	BATTLEFIELD BLVD	ALLISON DR	EW	589	675	86	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.8
CHES	MILITARY HWY	ALLISON DR	GREENBRIER PKWY	EW	608	694	86	-	-	-	-	-	-	-	-	-	-	1.1	2.2	1.3	0.2	4.8
CHES	MILITARY HWY	GREENBRIER PKWY	VA BEACH CL	EW	660	779	119	-	-	-	-	-	-	-	-	-	-	2.4	5.0	3.4	0.7	11.6
CHES	MLK HWY (FORMER DOMINION BLVD)	GREAT BRIDGE BLVD	CHESAPEAKE EXPRESSWAY	NS	1,775	2,288	513	-	-	-	-	-	-	-	-	-	-	1.7	3.9	2.0	0.7	8.3
CHES	MOSES GRANDY TRAIL	GW HWY @ HINTON AVE	SHIPYARD/CEDAR RD/GW HWY RELOC	EW	130	130	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
CHES	MOSES GRANDY TRAIL	SHIPYARD RD/CEDAR RD	CEDAR RD	EW	130	130	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
CHES	MOSES GRANDY TRAIL	CEDAR RD	DOMINION BLVD	EW	139	228	89	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.3	0.0	0.8
CHES	MOUNT PLEASANT RD	BATTLEFIELD BLVD	CHESAPEAKE EXPRESSWAY	EW	323	425	102	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.1	0.1	0.8
CHES	MOUNT PLEASANT RD	CHESAPEAKE EXPRESSWAY	CENTERVILLE TNPK	EW	290	343	53	-	-	-	-	-	-	-	-	-	-	0.8	2.3	1.2	0.4	4.7
CHES	MOUNT PLEASANT RD	CENTERVILLE TNPK	FENTRESS AIRFIELD RD	EW	178	174	(4)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.5	0.2	1.7
CHES	MOUNT PLEASANT RD	FENTRESS AIRFIELD RD	VA BEACH CL	EW	155	165	10	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
CHES	OLD BATTLEFIELD BLVD	BALLAHACK RD	BATTLEFIELD BLVD	NS	13	58	45	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	POINDEXTER ST (S NORFOLK JORDAN BRIDGE)	PORTSMOUTH CL	I-64	EW	61	557	496	-	-	-	-	-	-	-	-	-	-	0.5	0.2	0.4	0.0	1.1
CHES	POINDEXTER ST	I-64	BAINBRIDGE BLVD	EW	239	584	345	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
CHES	POINDEXTER ST	BAINBRIDGE BLVD	LIBERTY ST	EW	296	417	121	-	-	-	-	-	-	-	-	-	-	0.5	0.5	0.6	0.1	1.8
CHES	POPLAR HILL RD	WESTERN BRANCH BLVD	CHURCHLAND BLVD	NS	215	238	23	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
CHES	PORTSMOUTH BLVD	SUFFOLK CL	JOLLIFF RD	EW	594	594	-	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.4	0.1	1.3
CHES	PORTSMOUTH BLVD	JOLLIFF RD	I-664	EW	892	1,113	221	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.5	0.2	2.1
CHES	PORTSMOUTH BLVD	I-664	TAYLOR RD	EW	301	443	142	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.4	0.2	2.0
CHES	PORTSMOUTH BLVD	TAYLOR RD	DOCK LANDING RD	EW	371	536	165	-	-	-	-	-	-	-	-	-	-	0.4	0.4	0.4	0.1	1.3
CHES	PORTSMOUTH BLVD	DOCK LANDING RD	PORTSMOUTH CL	EW	395	543	148	-	-	-	-	-	-	-	-	-	-	1.0	1.0	1.1	0.1	3.2
CHES	PROVIDENCE RD	ATLANTIC AVE	CAMPOSTELLA RD	EW	64	134	70	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
CHES	PROVIDENCE RD	CAMPOSTELLA RD	VA BEACH CL	EW	183	318	135	-	-	-	-	-	-	-	-	-	-	1.0	1.9	1.3	0.3	4.4
CHES	PUGHVILLE RD	SUFFOLK CL	I-664	EW	457	635	178	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.0
CHES	PUGHVILLE RD	I-664	TAYLOR RD	EW	320	345	25	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6
CHES	ROUTE 13/58/460	SUFFOLK CL	I-664	EW	5,370	5,911	541	64.5	49.1	12.6	5.3	131.5	6.1	38.5	64.5	8.1	117.2	70.5	87.7	77.1	13.3	248.7
CHES	SIGN PINE RD	EDINBURGH PKWY	BENEFIT RD	NS	37	212	175	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.3
CHES	TAYLOR RD	PORTSMOUTH BLVD	ELIZABETH HARBOR RD	NS	154	181	27	-	-	-	-	-	-	-	-	-	-	0.2	0.2	0.2	0.0	0.7
CHES	TAYLOR RD	ELIZABETH HARBOR RD	BRUCE RD	NS	154	181	27	-	-	-	-	-	-	-	-	-	-	0.3	0.3	0.3	0.1	1.0
CHES	TAYLOR RD	BRUCE RD	PUGHVILLE RD	NS	172	190	18	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
CHES	TAYLOR RD	PUGHVILLE RD	WESTERN BRANCH BLVD	NS	211	245	34	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.2
CHES	TOWNE POINT RD	PORTSMOUTH CL	CHURCHLAND BLVD	EW	404	443	39	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)
CHES	TYRE NECK RD	BRUCE RD	SILVERWOOD BLVD	NS	37	48	11	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
CHES	TYRE NECK RD	SILVERWOOD BLVD	PORTSMOUTH CL	NS	78	106	28	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.4
CHES	VOLVO PKWY	BATTLEFIELD BLVD	GREENBRIER PKWY	EW	426	428	2	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.2
CHES	VOLVO PKWY	GREENBRIER PKWY	EDEN WAY	EW	424	403	(21)	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.0	0.7
CHES	VOLVO PKWY	EDEN WAY	KEMPSVILLE RD	EW	471	458	(13)	-	-	-	-	-	-	-	-	-	-	1.0	2.0	1.4	0.3	4.7
CHES	VOLVO PKWY	KEMPSVILLE RD	VA BEACH CL	EW	64	639	575	-	-	-	-	-	-	-	-	-	-	0.6	1.0	0.8	0.2	2.6
CHES	WESTERN BRANCH BLVD	CHURCHLAND BLVD	TAYLOR RD	EW	226	323	97	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
CHES	WESTERN BRANCH BLVD	TAYLOR RD	PORTSMOUTH CL	EW	277	443	166	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
GLO	BELROI RD	HICKORY FORK RD	ROUTE 17	EW	34	160	126	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
GLO	GUINEA RD	ROUTE 17	MARYUS RD	EW	103	115	12	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
GLO	HICKORY FORK RD	ROUTE 17	BELROI RD	NS	50	280	230	-	-	-	-	-	-	-	-	-	-	0.9	1.5	1.5	0.4	4.3
GLO	RTE 3/14	RTE 17 BUS	COW CREEK	EW	439	1,186	747	-	-	-	-	-	-	-	-	-	-	4.5	12.6	5.6	3.5	26.2
GLO	RTE 17 (COLEMAN BRIDGE)	YORK CL	RTE 216 (GUINEA RD)	NS	844	825	(19)	-	-	-	-	-	-	-	-	-	-	17.1	39.6	23.4	7.3	87.3
GLO	RTE 17	RTE 216 (GUINEA RD)	RTE 614 (HICKORY FORK RD)	NS	913	1,098	185	-	-	-	-	-	-	-	-	-	-	17.2	52.6	33.1	17.4	120.3
GLO	RTE 17	RTE 614 (HICKORY FORK RD)	RTE 17 BUS S (MAIN ST)	NS	753	1,025	272	-	-	-	-	-	-	-	-	-	-	11.5	29.9	11.6	8.9	62.9
GLO	RTE 17	RTE 17 BUS S (MAIN ST)	RTE 17 BUS N (MAIN ST)	NS	498	430	(68)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
GLO	RTE 17	RTE 17 BUS N (MAIN ST)	RTE 606 (ARK RD)	NS	406	527	121	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.2	1.1
GLO	MAIN ST (BUS RTE 17)	RTE 17 (SOUTH INTERSECTION)	RTE 3/14E	NS	263	916	653	-	-	-	-	-	-	-	-	-	-	2.3	6.1	2.9	1.8	13.1
HAM	ABERDEEN RD	NEWPORT NEWS CL	PEMBROKE AVE	NS	378	384	6	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	ABERDEEN RD	PEMBROKE AVE	I-664	NS	581	641	60	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	ABERDEEN RD	I-664	BRIARFIELD RD	NS	690	770	80	-	-	-	-	-	-	-	-	-	-	0.2	1.1	0.3	0.2	1.8
HAM	ABERDEEN RD	BRIARFIELD RD	MERCURY BLVD	NS	234	373	139	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.8
HAM	ABERDEEN RD	MERCURY BLVD	TODDS LA	NS	167	153	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	ARMISTEAD AVE	COMMANDER SHEPPARD BLVD	HRC PARKWAY	NS	194	314	120	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.0	0.8
HAM	ARMISTEAD AVE	HRC PARKWAY	MERCURY BLVD	NS	212	267	55	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.5	0.1	1.4
HAM	ARMISTEAD AVE	MERCURY BLVD	PINE CHAPEL RD	NS	188	157	(31)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	ARMISTEAD AVE	PINE CHAPEL RD	LASALLE AVE	NS	249	220	(29)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
HAM	ARMISTEAD AVE	LASALLE AVE	RIP RAP RD	NS	193	190	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	ARMISTEAD AVE	RIP RAP RD	PEMBROKE AVE	NS	295	181	(114)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	ARMISTEAD AVE	PEMBROKE AVE	SETTLERS LANDING RD	NS	134	137	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	BIG BETHEL RD	TODDS LANE	HRC PKWY	NS	189	311	122	-	-	-	-	-	-	-	-	-	-	0.6	1.3	0.8	0.2	2.9
HAM	BIG BETHEL RD	HRC PKWY	THOMAS NELSON DR	NS	172	173	1	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
HAM	BIG BETHEL RD	THOMAS NELSON DR	SAUNDERS RD	NS	125	140	15	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
HAM	BIG BETHEL RD	SAUNDERS RD	SEMPLE FARM RD	NS	93	140	47	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	BIG BETHEL RD	SEMPLE FARM RD	YORK CL	NS	72	180	108	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
HAM	BRIARFIELD RD	NEWPORT NEWS CL	ABERDEEN RD	EW	140	189	49	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.8
HAM	BRIARFIELD RD	ABERDEEN RD	POWER PLANT PKWY	EW	141	184	43	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	CHESTNUT AVE	NEWPORT NEWS CL	MERCURY BLVD	NS	40	49	9	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COMMANDER SHEPPARD BLVD	BIG BETHEL RD	NORTH CAMPUS PKWY	EW	-	48	48	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COMMANDER SHEPPARD BLVD	NORTH CAMPUS PKWY	MAGRUDER BLVD	EW	26	74	48	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COMMANDER SHEPPARD BLVD	MAGRUDER BLVD	ARMISTEAD AVE	EW	76	112	36	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COMMANDER SHEPPARD BLVD	ARMISTEAD AVE	NASA MAIN GATE	NS	279	397	118	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	COMMANDER SHEPPARD BLVD	NASA MAIN GATE	WYTHE CREEK RD	NS	218	308	90	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.4
HAM	COMMANDER SHEPPARD BLVD	WYTHE CREEK RD	MAGRUDER BLVD	EW	206	243	37	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	COLISEUM DR	CONVENTION CENTER BLVD	PINE CHAPEL RD	NS	6	81	75	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	COLISEUM DR	PINE CHAPEL RD	MERCURY BLVD	NS	21	24	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COLISEUM DR	MERCURY BLVD	MARCELLA DR	NS	59	273	214	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.6
HAM	COLISEUM DR	MARCELLA DR	HRC PARKWAY	NS	42	19	(23)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	CONVENTION CENTER BLVD	COLISEUM DR	ARMISTEAD AVE	NS	4	5	1	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	COUNTY ST	WOODLAND RD	MALLORY ST	EW	89	167	78	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	CUNNINGHAM DR	TODDS LA	COLISEUM DR	EW	53	85	32	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	CUNNINGHAM DR	COLISEUM DR	MERCURY BLVD	EW	28	37	9	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	FOX HILL RD	OLD BUCKROE RD	WOODLAND RD	EW	256	308	52	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
HAM	FOX HILL RD	WOODLAND RD	MERCURY BLVD	EW	250	354	104	-	-	-	-	-	-	-	-	-	-	1.1	3.5	1.3	0.7	6.6
HAM	HARRIS CREEK RD	FOX HILL RD	LITTLE BACK RIVER RD	NS	24	22	(2)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	HRC PARKWAY	NEWPORT NEWS CL	BIG BETHEL RD	EW	323	425	102	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
HAM	HRC PARKWAY	BIG BETHEL RD	I-64	EW	577	621	44	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
HAM	HRC PARKWAY	I-64	MAGRUDER BLVD	EW	534	539	5	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
HAM	HRC PARKWAY	MAGRUDER BLVD	COLISEUM DR	EW	451	411	(40)	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
HAM	HRC PARKWAY	COLISEUM DR	ARMISTEAD AVE	EW	368	456	88	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	KECOUGHTAN RD	NEWPORT NEWS CL	POWHATAN PKWY	EW	62	62	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KECOUGHTAN RD	POWHATAN PKWY	LASALLE AVE	EW	86	98	12	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KECOUGHTAN RD	LASALLE AVE	VICTORIA BLVD	NS	113	121	8	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	KECOUGHTAN RD	VICTORIA BLVD	SETTLERS LANDING RD	NS	150	167	17	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	KING ST	PEMBROKE AVE	I-64 OVERPASS	NS	101	87	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	I-64 OVERPASS	RIP RAP RD	NS	101	88	(13)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	RIP RAP RD	MERCURY BLVD	NS	206	232	26	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	KING ST	MERCURY BLVD	OLD FOX HILL RD	NS	78	88	10	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	OLD FOX HILL RD	LITTLE BACK RIVER RD	NS	67	77	10	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	KING ST	LITTLE BACK RIVER RD	LAMINGTON RD	NS	24	30	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	LAMINGTON RD	OLD BUCKINGHAM RD	NS	24	26	2	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	KING ST	OLD BUCKINGHAM RD	LANGLEY AFB	NS	24	30	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	LASALLE AVE	KECOUGHTAN RD	VICTORIA BLVD	NS	50	43	(7)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	LASALLE AVE	VICTORIA BLVD	SETTLERS LANDING RD	NS	116	174	58	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	LASALLE AVE	SETTLERS LANDING RD	PEMBROKE AVE	NS	155	203	48	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	LASALLE AVE	PEMBROKE AVE	ARMISTEAD AVE	NS	158	264	106	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
HAM	LASALLE AVE	ARMISTEAD AVE	MERCURY BLVD	NS	217	197	(20)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	LASALLE AVE	MERCURY BLVD	LANGLEY GATE	NS	168	121	(47)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	LITTLE BACK RIVER RD	KING ST	ROCKWELL RD	EW	95	92	(3)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
HAM	LITTLE BACK RIVER RD	ROCKWELL RD	HARRIS CREEK RD	EW	39	38	(1)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	MAGRUDER BLVD	YORK CL	SEMPLE FARM RD	NS	295	448	153	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
HAM	MAGRUDER BLVD	SEMPLE FARM RD	COMM SHEPPARD BLVD (SOUTH)	NS	515	743	228	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.6	0.1	1.6
HAM	MAGRUDER BLVD	COMM SHEPPARD BLVD (SOUTH)	HRC PARKWAY	NS	719	956	237	-	-	-	-	-	-	-	-	-	-	0.9	1.5	1.4	0.3	4.0
HAM	MAGRUDER BLVD	HRC PARKWAY	I-64	NS	561	699	138	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.6
HAM	MALLORY ST	I-64	COUNTY ST	EW	192	141	(51)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	MALLORY ST	COUNTY ST	MERCURY BLVD	EW	110	109	(1)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	MALLORY ST	MERCURY BLVD	PEMBROKE AVE	EW	87	80	(7)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	MELLEN ST	MERCURY BLVD	MALLORY ST	NS	63	77	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	MERCURY BLVD	NEWPORT NEWS CL	BIG BETHEL RD	EW	740	874	134	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
HAM	MERCURY BLVD	BIG BETHEL RD	ABERDEEN RD	EW	748	894	146	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
HAM	MERCURY BLVD	ABERDEEN RD	POWER PLANT PKWY	EW	866	1,147	281	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
HAM	MERCURY BLVD	POWER PLANT PKWY	I-64	EW	917	1,180	263	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
HAM	MERCURY BLVD	I-64	COLISEUM DR	EW	824	1,004	180	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
HAM	MERCURY BLVD	COLISEUM DR	CUNNINGHAM DR	EW	714	718	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
HAM	MERCURY BLVD	CUNNINGHAM DR	ARMISTEAD AVE	EW	772	752	(20)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
HAM	MERCURY BLVD	ARMISTEAD AVE	LASALLE AVE	EW	694	726	32	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.8
HAM	MERCURY BLVD	LASALLE AVE	KING ST	EW	612	668	56	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.1	1.6
HAM	MERCURY BLVD	KING ST	FOX HILL RD	EW	181	284	103	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
HAM	MERCURY BLVD	FOX HILL RD	ANDREWS BLVD	EW	181	173	(8)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
HAM	MERCURY BLVD	ANDREWS BLVD	PEMBROKE AVE	EW	120	143	23	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	MERCURY BLVD	PEMBROKE AVE	WOODLAND RD	EW	136	142	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	MERCURY BLVD	WOODLAND RD	MALLORY ST	EW	136	138	2	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	MERCURY BLVD	MALLORY ST	MELLEN ST/INGALLS RD	EW	10	19	9	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	OLD BUCKROE RD	PEMBROKE AVE	FOX HILL RD	NS	32	37	5	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	PEMBROKE AVE	NEWPORT NEWS CL	ABERDEEN RD	EW	167	203	36	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	PEMBROKE AVE	ABERDEEN RD	POWHATAN PKWY	EW	246	228	(18)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	PEMBROKE AVE	POWHATAN PKWY	SETTLERS LANDING RD	EW	290	321	31	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
HAM	PEMBROKE AVE	SETTLERS LANDING RD	LASALLE AVE	EW	285	368	83	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	PEMBROKE AVE	LASALLE AVE	ARMISTEAD AVE	EW	293	416	123	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
HAM	PEMBROKE AVE	ARMISTEAD AVE	KING ST	EW	176	203	27	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
HAM	PEMBROKE AVE	KING ST	EATON ST	EW	176	191	15	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	PEMBROKE AVE	EATON ST	BARRON ST	EW	176	213	37	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.7
HAM	PEMBROKE AVE	BARRON ST	MERCURY BLVD	EW	176	211	35	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.0	0.0	0.3
HAM	PEMBROKE AVE	MERCURY BLVD	WOODLAND RD	EW	210	259	49	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	PEMBROKE AVE	WOODLAND RD	OLD BUCKROE RD	EW	119	74	(45)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	PEMBROKE AVE	OLD BUCKROE RD	MALLORY ST	EW	30	42	12	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
HAM	POWER PLANT PKWY	I-664	BRIARFIELD RD	NS	146	143	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	POWER PLANT PKWY	BRIARFIELD RD	PINE CHAPEL RD	NS	248	254	6	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
HAM	POWER PLANT PKWY	PINE CHAPEL RD	MERCURY BLVD	NS	190	223	33	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	POWHATAN PKWY	KECOUGHTAN RD	PEMBROKE AVE	NS	125	204	79	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
HAM	POWHATAN PKWY	PEMBROKE AVE	I-664	NS	249	310	61	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	QUEEN ST	BRIARFIELD RD	MICHIGAN DR	EW	123	171	48	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
HAM	QUEEN ST	MICHIGAN DR	PEMBROKE AVE	EW	106	172	66	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	RIP RAP RD	ARMISTEAD AVE	I-64	NS	103	49	(54)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	RIP RAP RD	I-64	KING ST	NS	160	173	13	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
HAM	ROANOKE AVE	NEWPORT NEWS CL	MERCURY BLVD	NS	19	5	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	SAUNDERS RD	NEWPORT NEWS CL	BIG BETHEL RD	EW	88	85	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
HAM	SETTLERS LANDING RD	PEMBROKE AVE	LASALLE AVE	EW	158	172	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	SETTLERS LANDING RD	LASALLE AVE	KECOUGHTAN RD	EW	189	191	2	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	SETTLERS LANDING RD	KECOUGHTAN RD	ARMISTEAD AVE	EW	299	324	25	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	SETTLERS LANDING RD	ARMISTEAD AVE	EATON ST	EW	235	248	13	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
HAM	SETTLERS LANDING RD	EATON ST	TYLER ST	EW	286	265	(21)	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
HAM	SETTLERS LANDING RD	TYLER ST	I-64	EW	433	409	(24)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	TODDS LA	NEWPORT NEWS CL	BIG BETHEL RD	EW	104	148	44	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
HAM	TODDS LA	BIG BETHEL RD	ABERDEEN RD	EW	108	97	(11)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
HAM	TODDS LA	ABERDEEN RD	CUNNINGHAM DR	EW	117	127	10	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
HAM	TODDS LA	CUNNINGHAM DR	MERCURY BLVD	NS	76	71	(5)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	WOODLAND RD	I-64	COUNTY ST	NS	399	316	(83)	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
HAM	WOODLAND RD	COUNTY ST	MERCURY BLVD	NS	268	106	(162)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	WOODLAND RD	MERCURY BLVD	PEMBROKE AVE	NS	149	21	(128)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
HAM	WOODLAND RD	PEMBROKE AVE	FOX HILL RD	NS	90	49	(41)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
HAM	WYTHE CREEK RD	COMMANDER SHEPPARD BLVD	POQUOSON CL	NS	184	309	125	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
IW/SMT	BATTERY PARK RD	S CHURCH ST	NIKE PARK RD	EW	63	89	26	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
IV	BATTERY PARK RD	NIKE PARK RD	COUNTRY WAY	EW	20	42	22	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
IV	BENNS CHURCH BLVD	SUFFOLK CL	RIDDICK RD	NS	681	1,054	373	-	-	-	-	-	-	-	-	-	-	0.5	0.6	0.7	0.1	2.0
IV	BENNS CHURCH BLVD	RIDDICK RD	ROUTE 10 & 32 (BREWERS NECK BLVD)	NS	681	989	308	-	-	-	-	-	-	-	-	-	-	0.5	0.6	0.7	0.1	1.9
IV	BENNS CHURCH BLVD	ROUTE 10 & 32 (BREWERS NECK BLVD)	ECL SMITHFIELD (RTE 644)	NS	1,514	1,855	341	-	-	-	-	-	-	-	-	-	-	1.0	2.3	1.3	0.4	5.0
IW/SMT	BENNS CHURCH BLVD	ECL SMITHFIELD (RTE 644)	CHURCH ST S	NS	1,709	1,994	285	-	-	-	-	-	-	-	-	-	-	0.7	1.6	0.8	0.3	3.4
IV	BREWERS NECK BLVD	ROUTE 10 & 32 (BENN'S CHURCH)	RTE 670	EW	1,147	1,547	400	-	-	-	-	-	-	-	-	-	-	6.8	8.8	9.8	1.4	26.8
IV	BREWERS NECK BLVD	RTE 670	ROUTE 17	EW	1,147	1,516	369	-	-	-	-	-	-	-	-	-	-	3.0	3.9	4.3	0.7	11.9
IV	BUCKHORN DR	SUFFOLK CL	SUNSET DR (RTE 609)	NS	4	227	223	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
IV	BUCKHORN DR	SUNSET DR (RTE 609)	SCL WINDSOR	NS	4	211	207	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
IV	BUS RTE 10	NCL SMITHFIELD	JENKINS LANE	NS	28	27	(1)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IV	BUS RTE 10	JENKINS LANE	RT 10 BYPASS	NS	22	27	5	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IV	BUS RTE 58/BUS RTE 258	FRANKLIN CL	JAMESTOWN LN (RTE 691)	EW	88	88	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IV	BUS RTE 58/BUS RTE 258	JAMESTOWN LN (RTE 691)	ROUTE 258	EW	88	88	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
IV	BUS RTE 58	ROUTE 258	SUFFOLK CL	EW	47	47	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
IV	CARROLLTON BLVD	SUFFOLK CL	WEST END CHUCKATUCK BRIDGE	NS	454	602	148	-	-	-	-	-	-	-	-	-	-	1.0	0.7	1.8	0.1	3.5
IV	CARROLLTON BLVD	WEST END CHUCKATUCK BRIDGE	ROUTE 258	NS	454	602	148	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.4	0.1	1.3
IV	CARROLLTON BLVD	ROUTE 258	SMITH'S NECK RD	NS	900	1,264	364	-	-	-	-	-	-	-	-	-	-	0.7	0.9	0.9	0.2	2.7
IV	CARROLLTON BLVD/JAMES RIVER BR	SMITH'S NECK RD	NEWPORT NEWS CL	NS	900	1,219	319	-	-	-	-	-	-	-	-	-	-	16.5	15.8	22.1	2.1	56.5
IW/SMT	CHURCH ST S	RTE 10 BYPASS	BATTERY PARK RD	NS	85	221	136	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
IW/SMT	CHURCH ST S	BATTERY PARK RD	CYPRESS CREEK BRIDGE	NS	59	131	72	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
IW/SMT	CHURCH ST S	CYPRESS CREEK BRIDGE	MAIN ST	NS	86	158	72	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
IW/SMT	CHURCH ST N	MAIN ST	SMITHFIELD CL	NS	32	9	(23)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW/WIND COURT ST	SCL WINDSOR/BUCKHORN DR	ROUTE 460	ROUTE 460	NS	6	213	207	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW/SMT	MAIN ST	ROUTE 10 BYPASS	CHURCH ST	EW	25	-	(25)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IV	NIKE PARK RD	BATTERY PARK RD	TITUS CREEK DR	EW	47	53	7	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
IV	RESCUE RD	NEWPORT ST (RTE 1002)	SMITH'S NECK RD	EW	5	27	22	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
IV	ROUTE 10 (OLD STAGE HWY)	BUS RTE 10	IW/SURRY CL	NS	619	683	64	-	-	-	-	-	-	-	-	-	-	0.4	1.2	0.5	0.3	2.3

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
IW/SMT	ROUTE 10 BYPASS	CHURCH ST S	FAIRWAY DR	NS	598	797	199	-	-	-	-	-	-	-	-	-	-	1.5	3.4	1.6	0.7	7.2
IW/SMT	ROUTE 10 BYPASS	FAIRWAY DR	MAIN ST	NS	598	797	199	-	-	-	-	-	-	-	-	-	-	0.7	1.6	0.8	0.4	3.5
IW/SMT	ROUTE 10 BYPASS	MAIN ST	NCL SMITHFIELD	NS	332	495	163	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.3	0.1	1.2
IW	ROUTE 10 BYPASS	NCL SMITHFIELD	BUS RTE 10	NS	257	320	63	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
IW	ROUTE 258	SUFFOLK CL	UNION CAMP DR (RTE 656)	NS	171	262	91	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
IW	ROUTE 258	UNION CAMP DR (RTE 656)	CARRSVILLE HWY (BUS RTE 58)	NS	77	168	91	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW	ROUTE 258	CARRSVILLE HWY (BUS RTE 58)	BURDETTE RD (W RTE 619)	EW	154	245	91	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.1	0.5
IW	ROUTE 258	BURDETTE RD (W RTE 619)	RIVER RUN TRAIL (W RTE 614)	EW	154	253	99	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
IW	ROUTE 258	RIVER RUN TRAIL (W RTE 614)	BLACKWATER RD (RTE 603)	EW	257	172	(85)	-	-	-	-	-	-	-	-	-	-	0.5	1.0	0.6	0.2	2.3
IW	ROUTE 258	BLACKWATER RD (RTE 603)	WCL WINDSOR	EW	241	272	31	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW/WIND	ROUTE 258	WCL WINDSOR	ROUTE 460	EW	241	272	31	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW/WIND	ROUTE 258	ROUTE 460	ECL WINDSOR	EW	258	408	150	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW	ROUTE 258	ECL WINDSOR	COURT ST NORTH (RTE 610)	EW	258	408	150	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
IW	ROUTE 258	COURT ST NORTH (RTE 610)	IRON MINE SPRINGS RD (RTE 605)	EW	212	363	151	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.7
IW	ROUTE 258	IRON MINE SPRINGS RD (RTE 605)	CENTRAL HILL RD (W RTE 637)	EW	212	476	264	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.6
IW	ROUTE 258	CENTRAL HILL RD (W RTE 637)	SCOTTS FACTORY RD (RTE 620)	EW	247	411	164	-	-	-	-	-	-	-	-	-	-	0.7	1.4	0.8	0.3	3.2
IW	ROUTE 258	SCOTTS FACTORY RD (RTE 620)	WCL SMITHFIELD	EW	247	466	219	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	0.9
IW/SMT	ROUTE 258/N MAIN ST	WCL SMITHFIELD	RTE 10 BYPASS	EW	415	635	220	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
IW	ROUTE 460	SOUTHAMPTON CL	FIRETOWER RD (RTE 644)	EW	2,199	2,000	(199)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	0.9
IW	ROUTE 460	FIRETOWER RD (RTE 644)	WCL WINDSOR	EW	2,199	2,000	(199)	-	-	-	-	-	-	-	-	-	-	2.1	6.3	2.5	1.3	12.1
IW/WIND	ROUTE 460	WCL WINDSOR	ROUTE 258	EW	2,199	2,000	(199)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
IW/WIND	ROUTE 460	ROUTE 258	COURT ST (RTE 610)	EW	3,134	2,600	(534)	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.4
IW	ROUTE 460	COURT ST (RTE 610)	ECL WINDSOR	EW	3,415	2,600	(815)	-	-	-	-	-	-	-	-	-	-	0.8	1.8	1.0	0.4	3.9
IW	ROUTE 460	ECL WINDSOR	SUFFOLK CL	EW	3,415	2,600	(815)	-	-	-	-	-	-	-	-	-	-	2.6	5.5	3.0	1.2	12.4
IW	ROUTE 460 RELOCATED	SOUTHAMPTON CL	ROUTE 258	EW	-	2,000	2,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IW	ROUTE 460 RELOCATED	ROUTE 258	SUFFOLK CL	EW	-	2,600	2,600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IW	SMITH'S NECK RD	CARROLLTON BLVD	REYNOLDS DR	NS	64	74	10	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.0	0.7
IW	SMITH'S NECK RD	REYNOLDS DR	TITUS CREEK DR	NS	48	41	(7)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
IW	SMITH'S NECK RD	TITUS CREEK DR	RESCUE RD	NS	9	8	(1)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW	TITUS CREEK DR	SMITH'S NECK RD	NIKE PARK RD	EW	26	17	(9)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
IW	TODD AVE/WARWICK ST	COUNTRY WAY	NEWPORT ST (RTE 1002)	NS	5	27	22	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	BARHAMSVILLE RD	I-64	ROUTE 60	NS	548	1,037	489	-	-	-	-	-	-	-	-	-	-	0.2	1.2	0.5	0.1	2.0
JCC	CENTERVILLE RD	JOHN TYLER HWY	MONTICELLO AVE	NS	93	111	18	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	CENTERVILLE RD	MONTICELLO AVE	NEWS RD	NS	115	136	21	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
JCC	CENTERVILLE RD	NEWS RD	LONGHILL RD	NS	200	284	84	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.2
JCC	CENTERVILLE RD	LONGHILL RD	RICHMOND RD	NS	249	234	(15)	-	-	-	-	-	-	-	-	-	-	0.3	1.5	0.5	0.3	2.6
JCC	COLONIAL NATL HIST PKWY	JAMESTOWN/RTE 359	WILLIAMSBURG CL/RTE 199	EW	15	-	(15)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	CROAKER RD	ROUTE 60	MAXTON LN (RTE 760)	NS	234	437	203	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
JCC	CROAKER RD	MAXTON LN (RTE 760)	I-64	NS	232	455	223	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
JCC	CROAKER RD	I-64	FENTON MILL RD	NS	382	686	304	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
JCC	CROAKER RD	FENTON MILL RD	RIVERVIEW RD	NS	198	392	194	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6
JCC	DEPU DR	LONGHILL RD (RTE 612)	IRONBOUND RD	EW	135	201	66	-	-	-	-	-	-	-	-	-	-	0.1	0.8	0.2	0.1	1.2
JCC	IRONBOUND RD	STRAWBERRY PLAINS RD	MONTICELLO AVE	NS	131	131	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	IRONBOUND RD	MONTICELLO AVE	WILLIAMSBURG CL	NS	158	179	21	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
JCC	IRONBOUND RD/NEWS RD	JOHN TYLER HWY	MONTICELLO AVE	NS	135	109	(26)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
JCC	IRONBOUND RD/SANDY BAY RD	JAMESTOWN RD	JOHN TYLER HWY	NS	100	87	(13)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
JCC	JAMESTOWN RD	JAMES RIVER/FERRY	COLONIAL PARKWAY (RTE 359)	EW	60	60	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	JAMESTOWN RD	COLONIAL PARKWAY (RTE 359)	SANDY BAY RD (RTE 681)	EW	74	78	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
JCC	JAMESTOWN RD	SANDY BAY RD (RTE 681)	NECK-O-LAND RD	EW	89	87	(2)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
JCC	JAMESTOWN RD	NECK-O-LAND RD	WILLIAMSBURG CL	EW	89	78	(11)	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
JCC	JOHN TYLER HWY	CHARLES CITY CL	MONTICELLO AVE	EW	66	72	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
JCC	JOHN TYLER HWY	MONTICELLO AVE	CENTERVILLE RD (RTE 614)	EW	110	121	11	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
JCC	JOHN TYLER HWY	CENTERVILLE RD (RTE 614)	IRONBOUND RD (RTE 615)	EW	185	178	(7)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
JCC	JOHN TYLER HWY	IRONBOUND RD (RTE 615)	STANLEY DR (RTE 712)	EW	241	252	11	-	-	-	-	-	-	-	-	-	-	0.4	0.8	0.5	0.2	1.9
JCC	JOHN TYLER HWY	STANLEY DR (RTE 712)	ROUTE 199	EW	404	324	(80)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
JCC	LONGHILL RD	CENTERVILLE RD (RTE 614)	OLDE TOWNE RD (RTE 658)	EW	59	47	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
JCC	LONGHILL RD	OLDE TOWNE RD (RTE 658)	ROUTE 199	EW	145	102	(43)	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
JCC	LONGHILL RD	ROUTE 199	DEPUE DR	EW	280	336	56	-	-	-	-	-	-	-	-	-	-	0.2	1.3	0.3	0.1	2.0
JCC	MERRIMAC TRL	NEWPORT NEWS CL @ I-64	YORK CL (SOUTH OF GROVE INT)	EW	200	469	269	-	-	-	-	-	-	-	-	-	-	1.1	1.4	2.5	0.2	5.1
JCC	MERRIMAC TRL	YORK CL @ ROUTE 199	PENNIMAN RD (YORK CL)	EW	327	579	252	-	-	-	-	-	-	-	-	-	-	0.4	0.6	0.5	0.1	1.6
JCC	MONTICELLO AVE	JOHN TYLER HWY	CENTERVILLE RD (RTE 614)	EW	105	102	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
JCC	MONTICELLO AVE	CENTERVILLE RD (RTE 614)	NEWS RD	EW	262	262	-	-	-	-	-	-	-	-	-	-	-	0.0	0.3	0.0	0.0	0.3
JCC	MONTICELLO AVE	NEWS RD	ROUTE 199	EW	951	895	(56)	-	-	-	-	-	-	-	-	-	-	1.2	3.8	1.9	0.7	7.6
JCC	MONTICELLO AVE	ROUTE 199	IRONBOUND RD (RTE 615)	EW	234	226	(8)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
JCC	OLD STAGE RD	NEW KENT CL	BARNES RD (RTE 601 S)	EW	1,116	1,964	848	-	-	-	-	-	-	-	-	-	-	2.1	11.7	2.6	2.0	18.4
JCC	OLD STAGE RD	BARNES RD (RTE 601 S)	I-64	EW	1,116	1,920	804	-	-	-	-	-	-	-	-	-	-	1.5	8.2	2.0	1.4	13.1
JCC	OLDE TOWNE RD	LONGHILL RD	RICHMOND RD	EW	100	79	(21)	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.1	0.4
JCC	POCAHONTAS TRL	WILLIAMSBURG CL	YORK CL @ 199	EW	147	99	(48)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
JCC	POCAHONTAS TRL	YORK CL	BASF RD/ROUTE 60 RELOCATION	EW	528	760	232	-	-	-	-	-	-	-	-	-	-	2.4	4.7	3.9	0.6	11.5
JCC	POCAHONTAS TRL	BASF RD/ROUTE 60 RELOCATION	NEWPORT NEWS CL	EW	655	944	289	-	-	-	-	-	-	-	-	-	-	1.5	2.5	2.3	0.3	6.6
JCC	RICHMOND RD	ROUTE 199	OLDE TOWNE RD (RTE 658)	EW	304	758	454	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.5	0.1	1.9
JCC	RICHMOND RD	OLDE TOWNE RD (RTE 658)	WILLIAMSBURG CL	EW	333	793	460	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.7
JCC	ROCHAMBEAU DR	ROUTE 60	0.7 MI EAST OF ASHINGTON WAY	EW	162	211	49	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
JCC	ROCHAMBEAU DR	0.7 MI EAST OF ASHINGTON WAY	CROAKER RD (RTE 607)	EW	162	211	49	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
JCC	ROUTE 199	YORK CL	RICHMOND RD (RTE 60)	EW	595	542	(53)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JCC	ROUTE 199	RICHMOND RD (RTE 60)	LONGHILL RD (RTE 612)	EW	329	563	234	0.1	0.2	0.1	0.1	0.4	0.0	0.2	0.1	0.0	0.3	0.1	0.4	0.1	0.1	0.7
JCC	ROUTE 199	LONGHILL RD (RTE 612)	MONTICELLO AVE (RTE 321)	EW	427	556	129	0.1	0.2	0.1	0.0	0.4	0.1	0.2	0.1	0.0	0.3	0.1	0.3	0.2	0.1	0.7
JCC	ROUTE 199	MONTICELLO AVE (RTE 321)	JOHN TYLER HWY (RTE 5)	EW	385	511	126	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.3
JCC	ROUTE 199	JOHN TYLER HWY (RTE 5)	WILLIAMSBURG CL	EW	766	930	164	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
JCC	ROUTE 199	WILLIAMSBURG CL	HENRY ST/COLONIAL PKWY	EW	717	847	130	-	-	-	-	-	-	-	-	-	-	2.9	4.0	4.8	0.6	12.2
JCC	ROUTE 199	HENRY ST/COLONIAL PKWY	MOUNTS BAY RD/QUARTERPATH RD	EW	992	1,174	182	-	-	-	-	-	-	-	-	-	-	0.4	0.7	0.5	0.2	1.7
JCC	ROUTE 199	MOUNTS BAY RD/QUARTERPATH RD	RTE 60/RTE 143/YORK CL	EW	935	1,088	153	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.4	0.1	1.3
JCC	ROUTE 60	NEW KENT CL	ROUTE 30	EW	117	160	43	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.8
JCC	ROUTE 60	ROUTE 30	CROAKER RD (RTE 607)	EW	276	605	329	-	-	-	-	-	-	-	-	-	-	0.2	1.8	0.5	0.1	2.6
JCC	ROUTE 60	CROAKER RD (RTE 607)	LIGHTFOOT RD (RTE 646)	EW	439	988	549	-	-	-	-	-	-	-	-	-	-	0.7	3.8	1.4	0.3	6.3
JCC	ROUTE 60	LIGHTFOOT RD (RTE 646)	CENTERVILLE RD (RTE 614)	EW	439	1,167	728	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.4	0.1	1.2
JCC	ROUTE 60	CENTERVILLE RD (RTE 614)	ROUTE 199	EW	788	1,427	639	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.7
JCC	STRAWBERRY PLAINS RD	JOHN TYLER HWY/ROUTE 199	IRONBOUND RD	NS	86	113	27	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.0	0.0	0.3
NN	23RD/25TH CONNECTOR	HUNTINGTON AVE	JEFFERSON AVE	EW	33	44	11	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	25TH ST	JEFFERSON AVE	26TH ST	EW	66	69	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NN	25TH ST	26TH ST	HAMPTON CL	EW	131	137	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NN	26TH ST	25TH ST	ROANOKE AVE	EW	26	29	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	26TH ST	ROANOKE AVE	JEFFERSON AVE	EW	39	39	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	26TH ST	JEFFERSON AVE	WARWICK BLVD	EW	88	68	(20)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	26TH ST	WARWICK BLVD	HUNTINGTON AVE	EW	88	118	30	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	39TH ST	HUNTINGTON AVE	MADISON AVE	EW	167	571	404	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.1	0.1	0.9
NN	39TH ST	MADISON AVE	HAMPTON CL	EW	167	594	427	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NN	BLAND BLVD	WARWICK BLVD	I-64	EW	322	273	(49)	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.8
NN	BLAND BLVD	I-64	JEFFERSON AVE	EW	322	273	(49)	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.7
NN	BLAND BLVD	JEFFERSON AVE	McMANUS BLVD	EW	154	48	(106)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
NN	BRIARFIELD RD	JEFFERSON AVE	HAMPTON CL	EW	150	212	62	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NN	BUXTON AVE	HAMPTON CL	25TH ST	NS	534	528	(6)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NN	CENTER AVE	WARWICK BLVD	JEFFERSON AVE	EW	36	189	153	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
NN	CHESTNUT AVE	39TH ST	44TH ST	NS	175	39	(136)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	CHESTNUT AVE	44TH ST	BRIARFIELD RD	NS	175	158	(17)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NN	CHESTNUT AVE	BRIARFIELD RD	HAMPTON CL	NS	170	182	12	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NN	DENBIGH BLVD	LUCAS CREEK RD	WARWICK BLVD	EW	275	282	7	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.3	0.0	0.5
NN	DENBIGH BLVD	WARWICK BLVD	JEFFERSON AVE	EW	416	297	(119)	-	-	-	-	-	-	-	-	-	-	0.1	0.6	0.2	0.1	1.0
NN	DENBIGH BLVD	JEFFERSON AVE	YORK CL	EW	329	348	19	-	-	-	-	-	-	-	-	-	-	1.0	2.9	1.5	0.5	5.8
NN	DILIGENCE DR	THIMBLE SHOALS BLVD	J CLYDE MORRIS BLVD	EW	131	334	203	-	-	-	-	-	-	-	-	-	-	0.5	1.5	0.6	0.3	2.9

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NN	FORT EUSTIS BLVD	WARWICK BLVD	I-64	EW	1,511	1,553	42	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.5	0.1	1.6
NN	FORT EUSTIS BLVD	I-64	JEFFERSON AVE	EW	884	925	41	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NN	FORT EUSTIS BLVD	JEFFERSON AVE	.54 MILES EAST OF RTE 143	EW	591	662	71	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
NN	FORT EUSTIS BLVD	.54 MILES EAST OF RTE 143	YORK CL	EW	591	650	59	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.3	0.1	0.8
NN	HRC PARKWAY	HARPERSVILLE RD	HAMPTON CL	EW	323	425	102	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
NN	HARPERSVILLE RD	J CLYDE MORRIS BLVD	SAUNDERS RD	NS	198	209	11	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.2	1.7
NN	HARPERSVILLE RD	SAUNDERS RD	HRC PARKWAY	NS	57	103	46	-	-	-	-	-	-	-	-	-	-	0.4	1.4	0.7	0.3	2.8
NN	HARPERSVILLE RD	HRC PARKWAY	JEFFERSON AVE	NS	353	449	96	-	-	-	-	-	-	-	-	-	-	0.3	0.9	0.4	0.2	1.9
NN	HARPERSVILLE RD	JEFFERSON AVE	WARWICK BLVD	NS	105	150	45	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.2	0.0	0.4
NN	HUNTINGTON AVE	71ST ST	39TH ST	NS	165	335	170	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.3	0.1	1.0
NN	HUNTINGTON AVE	39TH ST	26TH ST	NS	95	109	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.1	0.0	0.1
NN	HUNTINGTON AVE	26TH ST	23RD ST	NS	95	161	66	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	J CLYDE MORRIS BLVD	WARWICK BLVD	JEFFERSON AVE	NS	386	489	103	-	-	-	-	-	-	-	-	-	-	0.4	1.4	0.8	0.2	2.7
NN	J CLYDE MORRIS BLVD	JEFFERSON AVE	THIMBLE SHOALS BLVD	NS	774	1,283	509	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.8	0.1	2.3
NN	J CLYDE MORRIS BLVD	THIMBLE SHOALS BLVD	I-64	NS	915	1,425	510	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.1	1.5
NN	J CLYDE MORRIS BLVD	I-64	HARPERSVILLE RD	NS	624	204	(420)	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.4	0.2	1.9
NN	J CLYDE MORRIS BLVD	HARPERSVILLE RD	YORK CL	NS	410	471	61	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.1	1.5
NN	JEFFERSON AVE	JAMES CITY CL	YORKTOWN RD	NS	317	716	399	-	-	-	-	-	-	-	-	-	-	0.9	1.4	1.5	0.2	4.0
NN	JEFFERSON AVE	YORKTOWN RD	FORT EUSTIS BLVD	NS	198	485	287	-	-	-	-	-	-	-	-	-	-	1.6	1.6	3.4	0.1	6.7
NN	JEFFERSON AVE	FORT EUSTIS BLVD	FUTURE ATKINSON BLVD	NS	491	1,011	520	-	-	-	-	-	-	-	-	-	-	1.7	2.1	3.0	0.2	7.1
NN	JEFFERSON AVE	FUTURE ATKINSON BLVD	DENBIGH BLVD	NS	609	1,093	484	-	-	-	-	-	-	-	-	-	-	5.1	5.2	9.3	0.6	20.0
NN	JEFFERSON AVE	DENBIGH BLVD	BLAND BLVD	NS	1,171	1,480	309	-	-	-	-	-	-	-	-	-	-	2.5	3.2	5.3	0.3	11.4
NN	JEFFERSON AVE	BLAND BLVD	I-64	NS	1,475	1,644	169	-	-	-	-	-	-	-	-	-	-	5.7	7.1	9.6	0.6	23.0
NN	JEFFERSON AVE	I-64	OYSTER POINT RD	NS	1,007	968	(39)	-	-	-	-	-	-	-	-	-	-	1.0	2.2	2.1	0.5	5.7
NN	JEFFERSON AVE	OYSTER POINT RD	MUELLER LA	NS	920	1,020	100	-	-	-	-	-	-	-	-	-	-	0.7	1.2	0.9	0.3	3.1
NN	JEFFERSON AVE	MUELLER LA	MIDDLE GROUND BLVD	NS	920	975	55	-	-	-	-	-	-	-	-	-	-	0.6	0.9	0.7	0.2	2.5
NN	JEFFERSON AVE	MIDDLE GROUND BLVD	J CLYDE MORRIS BLVD	NS	929	1,055	126	-	-	-	-	-	-	-	-	-	-	2.6	3.9	3.5	0.9	10.9
NN	JEFFERSON AVE	J CLYDE MORRIS BLVD	HARPERSVILLE RD	NS	1,253	1,804	551	-	-	-	-	-	-	-	-	-	-	3.7	5.5	5.9	1.0	16.0
NN	JEFFERSON AVE	HARPERSVILLE RD	MAIN ST	NS	988	1,498	510	-	-	-	-	-	-	-	-	-	-	1.6	2.2	1.9	0.4	6.1
NN	JEFFERSON AVE	MAIN ST	CENTER AVE	NS	842	1,370	528	-	-	-	-	-	-	-	-	-	-	1.0	1.4	1.1	0.2	3.7
NN	JEFFERSON AVE	CENTER AVE	MERCURY BLVD	NS	992	1,306	314	-	-	-	-	-	-	-	-	-	-	0.6	0.9	0.7	0.2	2.4
NN	JEFFERSON AVE	MERCURY BLVD	BRIARFIELD RD	NS	665	670	5	-	-	-	-	-	-	-	-	-	-	0.4	0.4	0.4	0.1	1.2
NN	JEFFERSON AVE	BRIARFIELD RD	41ST ST	NS	538	461	(77)	-	-	-	-	-	-	-	-	-	-	0.2	0.1	0.2	0.0	0.5
NN	JEFFERSON AVE	41ST ST	35TH ST	NS	257	199	(58)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.1	0.0	0.1
NN	JEFFERSON AVE	35TH ST	25TH ST	NS	378	408	30	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
NN	MAIN ST	WARWICK BLVD	JEFFERSON AVE	EW	103	185	82	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NN	MAIN ST	JEFFERSON AVE	HAMPTON CL	EW	68	80	12	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NN	MC MANUS BLVD/SIEMENS WAY	DENBIGH BLVD	BLAND BLVD	NS	46	76	30	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	1.0
NN	MERCURY BLVD/JAMES RIVER BR	ISLE OF WIGHT CL	RIVER RD	EW	900	1,219	319	-	-	-	-	-	-	-	-	-	-	0.8	0.8	1.1	0.1	2.7
NN	MERCURY BLVD	RIVER RD	WARWICK BLVD	EW	736	1,078	342	-	-	-	-	-	-	-	-	-	-	0.6	0.9	1.2	0.1	2.9
NN	MERCURY BLVD	WARWICK BLVD	JEFFERSON AVE	EW	1,310	1,820	510	-	-	-	-	-	-	-	-	-	-	0.7	1.2	0.8	0.2	2.9
NN	MERCURY BLVD	JEFFERSON AVE	HAMPTON CL	EW	657	802	145	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
NN	MIDDLE GROUND BLVD	WARWICK BLVD	JEFFERSON AVE	EW	-	148	148	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.4	0.1	1.3
NN	OYSTER POINT RD	WARWICK BLVD	JEFFERSON AVE	EW	600	625	25	-	-	-	-	-	-	-	-	-	-	2.0	5.9	3.7	1.1	12.7
NN	OYSTER POINT RD	JEFFERSON AVE	CANON BLVD	EW	613	679	66	-	-	-	-	-	-	-	-	-	-	0.4	1.2	1.0	0.2	2.8
NN	OYSTER POINT RD	CANON BLVD	I-64	EW	672	725	53	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	1.0
NN	RICHNECK RD	DENBIGH BLVD	JEFFERSON AVE	NS	35	70	35	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
NN	RICHNECK RD	JEFFERSON AVE	OLD YORK CL	NS	84	168	84	-	-	-	-	-	-	-	-	-	-	0.3	0.5	0.5	0.1	1.5
NN	RICHNECK RD	OLD YORK CL	FORT EUSTIS BLVD	NS	11	-	(11)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	ROANOKE AVE	I-664	43RD ST	NS	31	37	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	ROANOKE AVE	43RD ST	BRIARFIELD RD	NS	31	23	(8)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NN	ROANOKE AVE	BRIARFIELD RD	HAMPTON CL	NS	82	73	(9)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NN	SAUNDERS RD	HARPERSVILLE RD	HAMPTON CL	EW	83	80	(3)	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
NN	SHELLABARGER DR	FORT EUSTIS	WARWICK BLVD	EW	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	THIMBLE SHOALS BLVD	JEFFERSON AVE	DILIGENCE DR	EW	95	226	131	-	-	-	-	-	-	-	-	-	-	0.5	2.0	0.5	0.5	3.6
NN	THIMBLE SHOALS BLVD	DILIGENCE DR	J CLYDE MORRIS BLVD	EW	86	87	1	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.1	0.0	0.1
NN	VICTORY BLVD	I-64	YORK CL	EW	622	719	97	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.1

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NN	WARWICK BLVD	JAMES CITY CL	YORKTOWN RD	NS	731	964	233	-	-	-	-	-	-	-	-	-	-	2.2	3.6	3.4	0.4	9.6
NN	WARWICK BLVD	YORKTOWN RD	FORT EUSTIS BLVD	NS	958	1,082	124	-	-	-	-	-	-	-	-	-	-	5.4	11.1	8.7	1.6	26.8
NN	WARWICK BLVD	FORT EUSTIS BLVD	SNIDOW BLVD	NS	470	368	(102)	-	-	-	-	-	-	-	-	-	-	1.0	1.8	1.8	0.3	5.0
NN	WARWICK BLVD	SNIDOW BLVD	DENBIGH BLVD	NS	470	358	(112)	-	-	-	-	-	-	-	-	-	-	1.0	1.7	1.6	0.3	4.6
NN	WARWICK BLVD	DENBIGH BLVD	BLAND BLVD	NS	334	370	36	-	-	-	-	-	-	-	-	-	-	0.8	0.9	1.2	0.2	3.0
NN	WARWICK BLVD	BLAND BLVD	OYSTER POINT RD	NS	290	425	135	-	-	-	-	-	-	-	-	-	-	1.1	1.2	1.4	0.2	3.9
NN	WARWICK BLVD	OYSTER POINT RD	MAXWELL LN	NS	241	294	53	-	-	-	-	-	-	-	-	-	-	0.4	0.7	0.5	0.1	1.7
NN	WARWICK BLVD	MAXWELL LN	DEEP CREEK RD	NS	241	252	11	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NN	WARWICK BLVD	DEEP CREEK RD	J CLYDE MORRIS BLVD	NS	240	148	(92)	-	-	-	-	-	-	-	-	-	-	0.6	1.1	0.8	0.2	2.6
NN	WARWICK BLVD	J CLYDE MORRIS BLVD	HARPERSVILLE RD	NS	240	330	90	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.3	0.0	0.8
NN	WARWICK BLVD	HARPERSVILLE RD	MAIN ST	NS	208	306	98	-	-	-	-	-	-	-	-	-	-	0.5	1.1	0.8	0.2	2.6
NN	WARWICK BLVD	MAIN ST	CENTER AVE	NS	247	325	78	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.3	0.0	0.7
NN	WARWICK BLVD	CENTER AVE	MERCURY BLVD	NS	247	524	277	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
NN	WARWICK BLVD	MERCURY BLVD	HUNTINGTON AVE	NS	204	558	354	-	-	-	-	-	-	-	-	-	-	0.2	0.2	0.1	0.0	0.6
NN	WARWICK BLVD	23RD ST	39TH ST	NS	30	62	32	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NN	WARWICK BLVD	39TH ST	HUNTINGTON AVE	NS	162	263	101	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.5	0.1	1.1
NN	YORKTOWN RD	WARWICK BLVD	I-64	EW	389	411	22	-	-	-	-	-	-	-	-	-	-	0.4	0.8	0.4	0.2	1.7
NN	YORKTOWN RD	I-64	JEFFERSON AVE	EW	344	354	10	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NN	YORKTOWN RD	JEFFERSON AVE	CRAWFORD RD	EW	371	969	598	-	-	-	-	-	-	-	-	-	-	1.0	2.4	1.5	0.6	5.6
NN	YORKTOWN RD	CRAWFORD RD	YORK CL	EW	272	807	535	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.5	0.2	1.9
NOR	21ST ST	HAMPTON BLVD	COLLEY AVE	EW	82	25	(57)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	21ST ST	COLLEY AVE	LLEWELLYN ST	EW	134	102	(32)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
NOR	21ST ST	LLEWELLYN ST	MONTICELLO AVE	EW	93	39	(54)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	26TH ST	HAMPTON BLVD	COLLEY AVE	EW	96	132	36	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	26TH ST	COLLEY AVE	LLEWELLYN AVE	EW	189	241	52	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.6
NOR	26TH ST	LLEWELLYN AVE	MONTICELLO AVE	EW	208	286	78	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	26TH ST	MONTICELLO AVE	CHURCH ST	EW	198	284	86	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	26TH ST	CHURCH ST	27TH ST	EW	218	283	65	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	27TH ST	HAMPTON BLVD	COLLEY AVE	EW	366	403	37	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	27TH ST	COLLEY AVE	LLEWELLYN AVE	EW	366	403	37	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.0	0.0	0.5
NOR	27TH ST	LLEWELLYN AVE	MONTICELLO AVE	EW	367	431	64	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
NOR	27TH ST	MONTICELLO AVE	CHURCH ST	EW	367	428	61	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	27TH ST	CHURCH ST	26TH ST	EW	367	422	55	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	38TH ST	HAMPTON BLVD	COLLEY AVE	EW	44	69	25	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	38TH ST	COLLEY AVE	LLEWELLYN AVE	EW	67	92	25	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.1	0.3
NOR	38TH ST	LLEWELLYN AVE	GRANBY ST	EW	33	34	1	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	4TH VIEW ST	I-64	OCEAN VIEW AVE	EW	172	310	138	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	ADMIRAL TAUSSIG BLVD	HAMPTON BLVD	I-564	EW	990	614	(376)	-	-	-	-	-	-	-	-	-	-	0.6	0.4	1.2	0.1	2.3
NOR	AZALEA GARDEN RD	VA BEACH BLVD	PRINCESS ANNE RD	NS	305	302	(3)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	AZALEA GARDEN RD	PRINCESS ANNE RD	SEWELLS POINT RD	NS	448	475	27	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NOR	AZALEA GARDEN RD	SEWELLS POINT RD	ROBIN HOOD RD	NS	287	273	(14)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NOR	AZALEA GARDEN RD	ROBIN HOOD RD	I-64	NS	289	299	10	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	AZALEA GARDEN RD	I-64	MILITARY HWY	NS	258	279	21	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
NOR	AZALEA GARDEN RD	MILITARY HWY	NORVIEW AVE	NS	382	504	122	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	AZALEA GARDEN RD	NORVIEW AVE	LITTLE CREEK RD	NS	382	448	66	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
NOR	BAINBRIDGE BLVD	CHESAPEAKE CL	S MAIN ST	NS	95	111	16	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BALLENTINE BLVD	I-264	VA BEACH BLVD	NS	2,028	2,000	(28)	-	-	-	-	-	-	-	-	-	-	2.1	5.4	2.5	1.0	11.0
NOR	BALLENTINE BLVD	VA BEACH BLVD	PRINCESS ANNE RD	NS	1,295	1,218	(77)	-	-	-	-	-	-	-	-	-	-	0.7	2.1	0.9	0.5	4.2
NOR	BALLENTINE BLVD	PRINCESS ANNE RD	CHESAPEAKE BLVD	NS	1,040	1,046	6	-	-	-	-	-	-	-	-	-	-	0.6	1.8	0.8	0.5	3.6
NOR	BAY AVE	FIRST VIEW ST	I-64	EW	223	249	26	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BAY AVE/OCEAN AVE	I-64	GRANBY ST	EW	15	41	26	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	BAYVIEW BLVD	GRANBY ST	TIDEWATER DR	EW	65	69	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	BAYVIEW BLVD	TIDEWATER DR	CHESAPEAKE BLVD	EW	86	83	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	BAYVIEW BLVD	CHESAPEAKE BLVD	CAPE VIEW AVE	EW	53	56	3	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	BERKLEY AVE	I-464	STATE ST	EW	388	332	(56)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	BERKLEY AVE	STATE ST	MAIN ST	EW	375	266	(109)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	BERKLEY AVE	MAIN ST	BERKLEY AVE EXT	EW	364	256	(108)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BERKLEY AVE	BERKLEY AVE EXT	INDIAN RIVER RD	EW	300	320	20	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NOR	BERKLEY AVE EXT	BERKLEY AVE/FAUQUIER ST	WILSON RD	EW	106	77	(29)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BERKLEY AVE EXT	WILSON RD	CAMPOSTELLA RD	EW	93	64	(29)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BOUSH ST/WATERSIDE DR	ST PAULS BLVD	CITY HALL AVE	NS	596	584	(12)	-	-	-	-	-	-	-	-	-	-	0.3	0.4	0.5	0.1	1.2
NOR	BOUSH ST	CITY HALL AVE	BUTE STREET	NS	523	554	31	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
NOR	BOUSH ST	BUTE STREET	BRAMBLETON AVE	NS	523	540	17	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	BOUSH ST	BRAMBLETON AVE	OLNEY RD	NS	19	30	11	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	BOUSH ST	OLNEY RD	VA BEACH BLVD	NS	19	31	12	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	BRAMBLETON AVE	HAMPTON BLVD	COLLEY AVE	EW	1,273	1,360	87	-	-	-	-	-	-	-	-	-	-	0.3	0.9	1.1	0.2	2.5
NOR	BRAMBLETON AVE	COLLEY AVE	BOUSH ST	EW	1,714	1,818	104	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.6	0.2	2.2
NOR	BRAMBLETON AVE	BOUSH ST	MONTICELLO AVE	EW	1,096	1,108	12	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	BRAMBLETON AVE	MONTICELLO AVE	ST PAULS BLVD	EW	1,096	1,089	(7)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	BRAMBLETON AVE	ST PAULS BLVD	CHURCH ST	EW	736	783	47	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.3	0.1	0.9
NOR	BRAMBLETON AVE	CHURCH ST	TIDEWATER DR	EW	1,070	1,188	118	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.2
NOR	BRAMBLETON AVE	TIDEWATER DR	PARK AVE	EW	1,599	1,763	164	-	-	-	-	-	-	-	-	-	-	2.1	6.2	2.6	1.0	12.0
NOR	BRAMBLETON AVE	PARK AVE	I-264	EW	1,795	2,006	211	-	-	-	-	-	-	-	-	-	-	0.6	1.6	0.9	0.3	3.4
NOR	CAMPOSTELLA RD	SCL NORFOLK/BERKLEY AVE EXT	INDIAN RIVER RD	NS	884	1,093	209	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.1	1.6
NOR	CAMPOSTELLA RD	INDIAN RIVER RD	WILSON RD	NS	827	1,069	242	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NOR	CAMPOSTELLA RD	WILSON RD	S. END CAMPOSTELLA BRIDGE	NS	1,667	1,952	285	-	-	-	-	-	-	-	-	-	-	0.8	1.3	1.1	0.2	3.3
NOR	CAMPOSTELLA RD	S. END CAMPOSTELLA BRIDGE	KIMBALL TERR	NS	1,667	1,954	287	-	-	-	-	-	-	-	-	-	-	2.2	3.0	2.6	0.4	8.1
NOR	CAMPOSTELLA RD	KIMBALL TERR	I-264	NS	1,667	1,911	244	-	-	-	-	-	-	-	-	-	-	0.5	1.0	0.5	0.2	2.2
NOR	CHESAPEAKE BLVD	LAFAYETTE BLVD	CROMWELL DR	NS	317	352	35	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	CHESAPEAKE BLVD	CROMWELL DR	ROBIN HOOD RD	NS	317	361	44	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NOR	CHESAPEAKE BLVD	ROBIN HOOD RD	HYDE CIR	NS	317	364	47	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.3	0.1	1.0
NOR	CHESAPEAKE BLVD	HYDE CIR	NORVIEW AVE	NS	317	368	51	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	CHESAPEAKE BLVD	NORVIEW AVE	I-64	NS	404	438	34	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	CHESAPEAKE BLVD	I-64	JOHNSTONS RD	NS	254	265	11	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	CHESAPEAKE BLVD	JOHNSTONS RD	LITTLE CREEK RD	NS	254	281	27	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	CHESAPEAKE BLVD	LITTLE CREEK RD	SHEPPARD AVE	NS	225	261	36	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.6
NOR	CHESAPEAKE BLVD	SHEPPARD AVE	BAYVIEW BLVD	NS	225	257	32	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	CHESAPEAKE BLVD	BAYVIEW BLVD	CHESAPEAKE ST	NS	129	164	35	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
NOR	CHESAPEAKE BLVD	CHESAPEAKE ST	OCEAN VIEW AVE	NS	52	70	18	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	CHURCH ST	BRAMBLETON AVE	VA BEACH BLVD	NS	399	421	22	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.0	0.0	1.0
NOR	CHURCH ST	VA BEACH BLVD	PRINCESS ANNE RD	NS	399	437	38	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0	0.0	0.3
NOR	CHURCH ST	PRINCESS ANNE RD	26TH ST	NS	470	504	34	-	-	-	-	-	-	-	-	-	-	0.5	1.6	0.0	0.0	2.1
NOR	CHURCH ST	26TH ST	27TH ST	NS	318	347	29	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	CHURCH ST	27TH ST	MONTICELLO AVE	NS	293	316	23	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	CHURCH ST	MONTICELLO AVE	GRANBY ST	NS	667	738	71	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0	0.0	0.2
NOR	CITY HALL AVE	BOUSH ST	GRANBY ST	EW	148	189	41	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	CITY HALL AVE	GRANBY ST	MONTICELLO AVE	EW	148	189	41	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	CITY HALL AVE	MONTICELLO AVE	ST PAULS BLVD	EW	148	169	21	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	COLLEY AVE	BRAMBLETON AVE	OLNEY RD	NS	177	-	(177)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	OLNEY RD	PRINCESS ANNE RD	NS	147	-	(147)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	PRINCESS ANNE RD	21ST ST	NS	159	-	(159)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	21ST ST	26TH ST	NS	173	-	(173)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	26TH ST	27TH ST	NS	173	-	(173)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	27TH ST	38TH ST	NS	142	-	(142)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	COLLEY AVE	38TH ST	53RD ST	NS	142	-	(142)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	CROMWELL DR	TAIT TERRACE DR	CHESAPEAKE BLVD	NS	486	533	47	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.9
NOR	CROMWELL DR	CHESAPEAKE BLVD	TIDEWATER DR	NS	423	455	32	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.5	0.2	2.2
NOR	DUKE ST	OLNEY RD	BRAMBLETON AVE	NS	116	143	27	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	GRANBY ST	CHURCH ST	38TH ST	NS	285	364	79	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0	0.0	0.3
NOR	GRANBY ST	38TH ST	LLEWELLYN AVE	NS	285	376	91	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.0	0.0	0.6
NOR	GRANBY ST	LLEWELLYN AVE	WILLOW WOOD DRIVE	NS	438	541	103	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.0	0.0	0.5
NOR	GRANBY ST	WILLOW WOOD DRIVE	THOLE ST	NS	433	535	102	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.0	0.0	1.3
NOR	GRANBY ST	THOLE ST	LITTLE CREEK RD	NS	336	438	102	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.0	0.0	1.0
NOR	GRANBY ST	LITTLE CREEK RD	I-564	NS	301	403	102	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	GRANBY ST	I-564	I-64	NS	286	339	53	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0	0.0	0.1
NOR	GRANBY ST	I-64	BAYVIEW BLVD	NS	286	309	23	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.0	0.0	0.8

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NOR	GRANBY ST	BAYVIEW BLVD	BAY AVE	NS	164	184	20	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0	0.0	0.2
NOR	GRANBY ST	BAY AVE	TIDEWATER DR	NS	164	209	45	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	GRANBY ST	TIDEWATER DR	OCEAN VIEW AVE	NS	132	132	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	HAMPTON BLVD	BRAMBLETON AVE	PRINCESS ANNE RD	NS	1,384	1,359	(25)	-	-	-	-	-	-	-	-	-	-	1.5	3.6	0.0	0.0	5.1
NOR	HAMPTON BLVD	PRINCESS ANNE RD	21ST ST	NS	1,384	1,304	(80)	-	-	-	-	-	-	-	-	-	-	1.3	4.2	0.0	0.0	5.5
NOR	HAMPTON BLVD	21ST ST	26TH ST	NS	1,391	1,250	(141)	-	-	-	-	-	-	-	-	-	-	0.6	1.4	0.0	0.0	2.0
NOR	HAMPTON BLVD	26TH ST	27TH ST	NS	1,421	1,305	(116)	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.0	0.0	1.0
NOR	HAMPTON BLVD	27TH ST	38TH ST	NS	1,421	1,345	(76)	-	-	-	-	-	-	-	-	-	-	1.6	5.0	0.0	0.0	6.6
NOR	HAMPTON BLVD	38TH ST	JAMESTOWN CRESCENT	NS	1,530	1,414	(116)	-	-	-	-	-	-	-	-	-	-	1.5	3.1	0.0	0.0	4.6
NOR	HAMPTON BLVD	JAMESTOWN CRESCENT	LITTLE CREEK RD	NS	1,530	1,424	(106)	-	-	-	-	-	-	-	-	-	-	2.0	3.6	0.0	0.0	5.7
NOR	HAMPTON BLVD	LITTLE CREEK RD	INTERNATIONAL TERMINAL BLVD	NS	1,543	1,416	(127)	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.0	0.0	0.5
NOR	HAMPTON BLVD	INTERNATIONAL TERMINAL BLVD	INTERMODAL CONNECTOR	NS	1,267	1,044	(223)	-	-	-	-	-	-	-	-	-	-	1.0	1.7	0.5	0.1	3.3
NOR	HAMPTON BLVD	INTERMODAL CONNECTOR	ADM TAUSSIG BLVD	NS	1,267	1,073	(194)	-	-	-	-	-	-	-	-	-	-	0.5	0.9	0.1	0.0	1.6
NOR	INDIAN RIVER RD	MARSH ST	WILSON RD	EW	227	203	(24)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	INDIAN RIVER RD	WILSON RD	CAMPOSTELLA RD	EW	227	203	(24)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	INDIAN RIVER RD	CAMPOSTELLA RD	CHESAPEAKE CL	EW	492	488	(4)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	INGLESIDE RD	VA BEACH BLVD	PRINCESS ANNE RD	NS	482	506	24	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	INGLESIDE RD	PRINCESS ANNE RD	TAIT TERRACE DR	NS	485	536	51	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.7
NOR	INTERMODAL CONNECTOR	SECOND ST	I-564	EW	-	286	286	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NOR	INTERNATIONAL TERMINAL BLVD	HAMPTON BLVD	I-564	EW	2,056	2,030	(26)	-	-	-	-	-	-	-	-	-	-	0.8	2.6	2.5	0.8	6.6
NOR	JAMESTOWN CRESCENT	53RD ST	HAMPTON BLVD	NS	61	-	(61)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	JOHNSTONS RD	SEWELLS POINT RD	CHESAPEAKE BLVD	EW	82	102	20	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	JOHNSTONS RD	CHESAPEAKE BLVD	MILITARY HWY	EW	125	127	2	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	JOHNSTONS RD/HALPRIN LN	MILITARY HWY	LITTLE CREEK RD	EW	50	54	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	KEMPSVILLE RD	NEWTOWN RD	VA BEACH BLVD	NS	135	99	(36)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	KEMPSVILLE RD	VA BEACH BLVD	NORTHAMPTON BLVD	NS	83	154	71	-	-	-	-	-	-	-	-	-	-	0.5	1.0	0.5	0.1	2.1
NOR	LAFAYETTE BLVD	27TH ST	TIDEWATER DR	EW	279	380	101	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.5	0.2	1.2
NOR	LAFAYETTE BLVD	TIDEWATER DR	CHESAPEAKE BLVD	EW	311	396	85	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
NOR	LIBERTY ST	STATE ST	SOUTH MAIN ST	EW	249	180	(69)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	LIBERTY ST	SOUTH MAIN ST	CHESAPEAKE CL	EW	615	594	(21)	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.4
NOR	LITTLE CREEK RD	HAMPTON BLVD	GRANBY ST	EW	183	209	26	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.2	0.1	1.4
NOR	LITTLE CREEK RD	GRANBY ST	I-64	EW	842	862	20	-	-	-	-	-	-	-	-	-	-	0.1	0.6	0.2	0.1	1.0
NOR	LITTLE CREEK RD	I-64	TIDEWATER DR	EW	806	828	22	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.7
NOR	LITTLE CREEK RD	TIDEWATER DR	SEWELLS POINT RD	EW	911	959	48	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.8
NOR	LITTLE CREEK RD	SEWELLS POINT RD	CHESAPEAKE BLVD	EW	911	946	35	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.4	0.2	2.0
NOR	LITTLE CREEK RD	CHESAPEAKE BLVD	MILITARY HWY	EW	1,256	1,313	57	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.4
NOR	LITTLE CREEK RD	MILITARY HWY	AZALEA GARDEN RD	EW	623	611	(12)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	0.9
NOR	LITTLE CREEK RD	AZALEA GARDEN RD	SHORE DR	EW	553	594	41	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.5	0.2	2.0
NOR	LLEWELLYN AVE	VA BEACH BLVD	PRINCESS ANNE RD	NS	66	90	24	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	LLEWELLYN AVE	PRINCESS ANNE RD	21ST ST	NS	70	116	46	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	LLEWELLYN AVE	21ST ST	26TH ST	NS	61	161	100	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	LLEWELLYN AVE	26TH ST	27TH ST	NS	61	133	72	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	LLEWELLYN AVE	27TH ST	35TH ST	NS	55	103	48	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	LLEWELLYN AVE	35TH ST	38TH ST	NS	55	100	45	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	LLEWELLYN AVE	38TH ST	DELAWARE AVE	NS	89	102	13	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	LLEWELLYN AVE	DELAWARE AVE	GRANBY ST	NS	59	64	5	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	MIDTOWN TUNNEL	PORTSMOUTH CL	BRAMBLETON AVE	NS	1,771	1,862	91	-	-	-	-	-	-	-	-	-	-	1.4	1.5	1.5	0.2	4.6
NOR	MILITARY HWY	VA BEACH CL	I-264	NS	740	919	179	-	-	-	-	-	-	-	-	-	-	1.2	1.7	1.6	0.3	4.8
NOR	MILITARY HWY	I-264	VA BEACH BLVD	NS	1,014	1,238	224	-	-	-	-	-	-	-	-	-	-	0.6	1.3	0.7	0.2	2.8
NOR	MILITARY HWY	VA BEACH BLVD	LOWERY RD	NS	988	1,210	222	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
NOR	MILITARY HWY	LOWERY RD	PRIN ANNE RD/NORTHAMPTON BLVD	NS	988	1,236	248	-	-	-	-	-	-	-	-	-	-	0.8	1.6	1.3	0.2	4.0
NOR	MILITARY HWY	PRIN ANNE RD/NORTHAMPTON BLVD	I-64	NS	751	990	239	-	-	-	-	-	-	-	-	-	-	0.7	1.2	0.9	0.2	3.0
NOR	MILITARY HWY	I-64	AZALEA GARDEN RD	NS	415	581	166	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.6	0.1	1.8
NOR	MILITARY HWY	AZALEA GARDEN RD	NORVIEW AVE	NS	425	498	73	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
NOR	MILITARY HWY	NORVIEW AVE	JOHNSTONS RD	NS	425	508	83	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
NOR	MILITARY HWY	JOHNSTONS RD	LITTLE CREEK RD	NS	425	488	63	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

					2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
Juris	Facility Name	Segment From	Segment To	Dir				Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NOR	MONTICELLO AVE	CITY HALL AVE	BRAMBLETON AVE	NS	291	321	30	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	MONTICELLO AVE	BRAMBLETON AVE	ST PAULS BLVD	NS	196	231	35	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	MONTICELLO AVE	ST PAULS BLVD	VA BEACH BLVD	NS	656	648	(8)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	MONTICELLO AVE	VA BEACH BLVD	PRINCESS ANNE RD	NS	564	636	72	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
NOR	MONTICELLO AVE	PRINCESS ANNE RD	21ST ST	NS	564	736	172	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.6
NOR	MONTICELLO AVE	21ST ST	26TH ST	NS	458	519	61	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	MONTICELLO AVE	26TH ST	27TH ST	NS	458	527	69	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	MONTICELLO AVE	27TH ST	CHURCH ST	NS	458	504	46	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	NEWTOWN RD	KEMPSVILLE RD	I-264	NS	398	394	(4)	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.9
NOR	NEWTOWN RD	I-264	VA BEACH BLVD	NS	492	513	21	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.4	0.2	2.1
NOR	NEWTOWN RD	VA BEACH BLVD	VA BEACH CL	NS	550	521	(29)	-	-	-	-	-	-	-	-	-	-	0.3	1.1	0.4	0.2	2.0
NOR	NORTHAMPTON BLVD	MILITARY HWY	KEMPSVILLE RD	EW	1,164	1,291	127	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.7	0.1	2.1
NOR	NORTHAMPTON BLVD	KEMPSVILLE RD	I-64	EW	1,241	1,350	109	-	-	-	-	-	-	-	-	-	-	0.3	0.9	0.7	0.2	2.2
NOR	NORTHAMPTON BLVD	I-64	WESLEYAN DR/VA BEACH CL	EW	3,083	3,135	52	-	-	-	-	-	-	-	-	-	-	1.2	3.1	2.1	0.5	6.9
NOR	NORVIEW AVE	TIDEWATER DR	CHESAPEAKE BLVD	EW	57	67	10	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	NORVIEW AVE	CHESAPEAKE BLVD	I-64	EW	240	310	70	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	NORVIEW AVE	I-64	MILITARY HWY	EW	272	439	167	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.4
NOR	NORVIEW AVE	MILITARY HWY	AZALEA GARDEN RD	EW	98	250	152	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	NORVIEW AVE	AZALEA GARDEN RD	NORFOLK INT AIRPORT	EW	92	244	152	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	OCEAN VIEW AVE	4TH VIEW ST	TIDEWATER DR	EW	186	544	358	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.2	0.0	0.4
NOR	OCEAN VIEW AVE	TIDEWATER DR	GRANBY ST	EW	186	389	203	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
NOR	OCEAN VIEW AVE	GRANBY ST	CHESAPEAKE BLVD	EW	237	344	107	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	OCEAN VIEW AVE	CHESAPEAKE BLVD	21ST BAY ST	EW	234	436	202	-	-	-	-	-	-	-	-	-	-	0.8	1.3	1.1	0.2	3.4
NOR	OLNEY RD	COLLEY AVE	DUKE ST/VA BEACH BLVD	EW	97	97	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	PARK AVE	BRAMBLETON AVE	VA BEACH BLVD	EW	350	438	88	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	PARK AVE	VA BEACH BLVD	PRINCESS ANNE RD	EW	313	379	66	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	PRINCESS ANNE RD	HAMPTON BLVD	COLLEY AVE	EW	100	35	(65)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	PRINCESS ANNE RD	COLLEY AVE	LLEWELLYN AVE	EW	140	75	(65)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	PRINCESS ANNE RD	LLEWELLYN AVE	MONTICELLO AVE	EW	156	81	(75)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	PRINCESS ANNE RD	MONTICELLO AVE	CHURCH ST	EW	162	115	(47)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	PRINCESS ANNE RD	CHURCH ST	TIDEWATER DR	EW	282	236	(46)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	PRINCESS ANNE RD	TIDEWATER DR	MAY AVE	EW	163	152	(11)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	PRINCESS ANNE RD	MAY AVE	PARK AVE	EW	163	165	2	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	PRINCESS ANNE RD	PARK AVE	BALLETINE BLVD	EW	605	643	38	-	-	-	-	-	-	-	-	-	-	0.3	0.9	0.5	0.1	1.8
NOR	PRINCESS ANNE RD	BALLETINE BLVD	INGLESIDE RD	EW	697	696	(1)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
NOR	PRINCESS ANNE RD	INGLESIDE RD	AZALEA GARDEN RD	EW	697	680	(17)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
NOR	PRINCESS ANNE RD	AZALEA GARDEN RD	SEWELLS POINT RD	EW	779	781	2	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	PRINCESS ANNE RD	SEWELLS POINT RD	MILITARY HWY	EW	779	776	(3)	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.6	0.2	2.0
NOR	ROBIN HOOD RD	CHESAPEAKE BLVD	SEWELLS POINT RD	EW	151	151	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	ROBIN HOOD RD	SEWELLS POINT RD	AZALEA GARDEN RD	EW	125	-	(125)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	ROBIN HOOD RD	AZALEA GARDEN RD	ELLSMERE AVE	EW	217	193	(24)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	ROBIN HOOD RD	ELLSMERE AVE	MILITARY HWY	EW	281	253	(28)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
NOR	SEWELLS POINT RD	PRINCESS ANNE RD	AZALEA GARDEN RD	NS	274	271	(3)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	SEWELLS POINT RD	AZALEA GARDEN RD	ROBIN HOOD RD	NS	274	319	45	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	SEWELLS POINT RD	ROBIN HOOD RD	CHESAPEAKE BLVD	NS	274	319	45	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
NOR	SEWELLS POINT RD	CHESAPEAKE BLVD	PARTRIDGE ST	NS	174	162	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	SEWELLS POINT RD	PARTRIDGE ST	PHILPOTTS RD	NS	174	192	18	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	SEWELLS POINT RD	PHILPOTTS RD	I-64	NS	174	199	25	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	SEWELLS POINT RD	I-64	LITTLE CREEK RD	NS	174	202	28	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	SHORE DRIVE	21ST BAY ST	LITTLE CREEK RD	EW	258	480	222	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.7	0.1	1.9
NOR	SHORE DRIVE	LITTLE CREEK RD	VA BEACH CL	EW	379	588	209	-	-	-	-	-	-	-	-	-	-	0.8	1.3	1.4	0.2	3.7
NOR	SOUTH MAIN ST	I-64	BAINBRIDGE BLVD	NS	316	280	(36)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	SOUTH MAIN ST	BAINBRIDGE BLVD	LIBERTY ST	NS	316	284	(32)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	SOUTH MAIN ST	LIBERTY ST	BERKLEY AVE	NS	316	316	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	ST PAULS BLVD	WATERSIDE DR	CITY HALL AVE	NS	129	158	29	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	ST PAULS BLVD	CITY HALL AVE	I-264 RAMP/MACARTHUR MALL	NS	348	352	4	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	ST PAULS BLVD	I-264 RAMP/MACARTHUR MALL	BRAMBLETON AVE	NS	348	268	(80)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	ST PAULS BLVD	BRAMBLETON AVE	MONTICELLO AVE	NS	605	591	(14)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Truck Volume	20-Year Forecast Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
NOR	STATE ST	LIBERTY ST	BERKLEY AVE	NS	218	149	(69)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	STATE ST	BERKLEY AVE	I-464 RAMP	NS	89	93	4	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	THOLE ST	GRANBY ST	TIDEWATER DR	EW	60	51	(9)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
NOR	TIDEWATER DR	CITY HALL AVE	BRAMBLETON AVE	NS	907	994	87	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
NOR	TIDEWATER DR	BRAMBLETON AVE	VA BEACH BLVD	NS	748	1,043	295	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.4	0.2	1.6
NOR	TIDEWATER DR	VA BEACH BLVD	PRINCESS ANNE RD	NS	731	1,035	304	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
NOR	TIDEWATER DR	PRINCESS ANNE RD	LAFAYETTE BLVD	NS	731	1,014	283	-	-	-	-	-	-	-	-	-	-	1.4	5.1	3.1	1.6	11.1
NOR	TIDEWATER DR	LAFAYETTE BLVD	CROMWELL DR	NS	694	975	281	-	-	-	-	-	-	-	-	-	-	0.3	1.1	0.7	0.4	2.6
NOR	TIDEWATER DR	CROMWELL DR	NORVIEW AVE	NS	854	1,174	320	-	-	-	-	-	-	-	-	-	-	0.7	2.4	2.0	0.8	5.9
NOR	TIDEWATER DR	NORVIEW AVE	THOLE ST	NS	872	1,200	328	-	-	-	-	-	-	-	-	-	-	1.0	3.3	2.6	1.3	8.1
NOR	TIDEWATER DR	THOLE ST	I-64	NS	872	1,043	171	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	TIDEWATER DR	I-64	LITTLE CREEK RD	NS	377	496	119	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
NOR	TIDEWATER DR	LITTLE CREEK RD	BAYVIEW BLVD	NS	231	339	108	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	0.9
NOR	TIDEWATER DR	BAYVIEW BLVD	GRANBY ST	NS	160	271	111	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	TIDEWATER DR	GRANBY ST	OCEAN VIEW AVE	NS	80	238	158	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
NOR	VA BEACH BLVD	OLNEY RD	GRANBY ST	EW	64	90	26	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	VA BEACH BLVD	GRANBY ST	MONTICELLO AVE	EW	57	58	1	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	VA BEACH BLVD	MONTICELLO AVE	CHURCH ST	EW	134	122	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	VA BEACH BLVD	CHURCH ST	TIDEWATER DR	EW	134	142	8	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
NOR	VA BEACH BLVD	TIDEWATER DR	PARK AVE	EW	166	166	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
NOR	VA BEACH BLVD	PARK AVE	BALLENTINE BLVD	EW	589	613	24	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.4	0.1	1.2
NOR	VA BEACH BLVD	BALLENTINE BLVD	INGLESIDE RD	EW	1,046	1,075	29	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
NOR	VA BEACH BLVD	INGLESIDE RD	AZALEA GARDEN RD	EW	1,046	1,098	52	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.8
NOR	VA BEACH BLVD	AZALEA GARDEN RD	JETT ST	EW	1,051	1,098	47	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.0
NOR	VA BEACH BLVD	JETT ST	MILITARY HWY	EW	1,051	1,109	58	-	-	-	-	-	-	-	-	-	-	0.7	1.8	1.3	0.2	4.0
NOR	VA BEACH BLVD	MILITARY HWY	GLENROCK RD	EW	327	494	167	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.4
NOR	VA BEACH BLVD	GLENROCK RD	KEMPSVILLE RD	EW	327	475	148	-	-	-	-	-	-	-	-	-	-	0.3	0.4	0.6	0.0	1.3
NOR	VA BEACH BLVD	KEMPSVILLE RD	NEWTOWN RD	EW	385	530	145	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.5	0.1	1.5
NOR	WESLEYAN DR	NORTHAMPTON BLVD	NCL VA BEACH	EW	165	344	179	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
NOR	WILLOW WOOD DR	GRANBY ST	TIDEWATER DR	EW	103	114	11	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0	0.0	0.3
NOR	WILSON RD	BERKLEY AVE/CHESAPEAKE CL	INDIAN RIVER RD	EW	299	-	(299)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
NOR	WILSON RD	INDIAN RIVER RD	CAMPOTELLA RD	EW	299	-	(299)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
POQ	EAST YORKTOWN RD	YORK CL	HUNT'S NECK RD	EW	25	45	20	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
POQ	EAST YORKTOWN RD	HUNT'S NECK RD	POQUOSON AVE	NS	50	37	(13)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
POQ	LITTLE FLORIDA RD	WYTHE CREEK RD	POQUOSON AVE	EW	144	206	62	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.6	0.2	2.3
POQ	POQUOSON AVE	WYTHE CREEK RD	LITTLE FLORIDA RD	EW	75	75	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
POQ	VICTORY BLVD	YORK CL	WYTHE CREEK RD	EW	165	217	52	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
POQ	WYTHE CREEK RD	HAMPTON CL	ALPHUS ST	NS	198	271	73	-	-	-	-	-	-	-	-	-	-	0.7	2.2	0.9	0.4	4.3
POQ	WYTHE CREEK RD	ALPHUS ST	LITTLE FLORIDA RD	NS	240	313	73	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
POQ	WYTHE CREEK RD	LITTLE FLORIDA RD	HUDGINS RD	NS	198	184	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
POQ	WYTHE CREEK RD	HUDGINS RD	POQUOSON AVE	NS	127	113	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	AIRLINE BLVD	CHESAPEAKE CL	GREENWOOD DR	EW	317	294	(23)	-	-	-	-	-	-	-	-	-	-	0.3	0.3	0.1	0.0	0.7
PORT	AIRLINE BLVD	GREENWOOD DR	ELMHURST LN	EW	338	211	(127)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	AIRLINE BLVD	ELMHURST LN	.55 MI E ELMHURST LN	EW	269	176	(93)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	AIRLINE BLVD	.55 MI E ELMHURST LN	VICTORY BLVD	EW	269	177	(92)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	AIRLINE BLVD	VICTORY BLVD	PORTSMOUTH BLVD	EW	307	245	(62)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	AIRLINE BLVD	PORTSMOUTH BLVD	FREDERICK BLVD	EW	384	423	39	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.3
PORT	AIRLINE BLVD	FREDERICK BLVD	HIGH ST	EW	488	411	(77)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	CAVALIER BLVD	CHESAPEAKE CL	GREENWOOD DR	NS	84	496	412	-	-	-	-	-	-	-	-	-	-	0.5	0.3	0.6	0.1	1.5
PORT	CEDAR LN	HIGH ST	W NORFOLK RD	NS	113	162	49	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
PORT	CEDAR LN	W NORFOLK RD	WESTERN FREEWAY	NS	140	190	50	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CEDAR LN	WESTERN FREEWAY	S PERIMETER RD	NS	95	214	119	-	-	-	-	-	-	-	-	-	-	0.2	0.7	0.2	0.1	1.2
PORT	CHURCHLAND BLVD	CHESAPEAKE CL	W NORFOLK RD	EW	41	135	94	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CHURCHLAND BLVD	W NORFOLK RD	TYRE NECK RD	EW	107	152	45	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CHURCHLAND BLVD	TYRE NECK RD	HIGH ST	EW	110	176	66	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COAST GUARD BLVD	CEDAR LN	COAST GUARD BASE GATE	EW	310	220	(90)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
PORT	COUNTY ST	CONSTITUTION AVE	PENINSULA AVE	EW	368	282	(86)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COUNTY ST	PENINSULA AVE	ELM AVE	EW	357	209	(148)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
PORT	COUNTY ST	ELM AVE	EFFINGHAM ST	EW	84	96	13	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COURT ST	PAVILION DR	COUNTY ST	NS	158	60	(98)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COURT ST	COUNTY ST	HIGH ST	NS	158	84	(74)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COURT ST	HIGH ST	LONDON BLVD	NS	74	36	(38)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	COURT ST	LONDON BLVD	CRAWFORD PKWY	NS	42	19	(23)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRANEY ISLAND ACCESS RD	WESTERN FREEWAY	PROPOSED TERMINAL	NS	-	2	2	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRAWFORD PKWY	EFFINGHAM ST	CRAWFORD ST	EW	27	6	(21)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRAWFORD ST	CRAWFORD PKWY	LONDON BLVD	NS	33	35	2	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRAWFORD ST	LONDON BLVD	HIGH ST	NS	62	158	96	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRAWFORD ST	HIGH ST	COUNTY ST	NS	67	106	39	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	CRAWFORD ST/BART ST	COUNTY ST	COURT ST	NS	70	106	36	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	DEEP CREEK BLVD	VICTORY BLVD	GREENWOOD DR	NS	88	80	(8)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	DEEP CREEK BLVD	GREENWOOD DR	PORTSMOUTH BLVD	NS	112	100	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
PORT	DEEP CREEK BLVD	PORTSMOUTH BLVD	FREDERICK BLVD	NS	121	107	(14)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	DEEP CREEK BLVD	FREDERICK BLVD	DES MOINES AVE	NS	66	60	(6)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	DES MOINES AVE	DEEP CREEK BLVD	I-264	NS	83	89	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	EFFINGHAM ST	PORTSMOUTH BLVD	I-264	NS	528	413	(115)	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.1	0.3
PORT	EFFINGHAM ST	I-264	SOUTH ST	NS	699	259	(440)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	EFFINGHAM ST	SOUTH ST	HIGH ST	NS	509	190	(319)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	EFFINGHAM ST	HIGH ST	LONDON BLVD	NS	453	192	(261)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	EFFINGHAM ST	LONDON BLVD	NORTH ST	NS	131	159	28	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	EFFINGHAM ST	NORTH ST	CRAWFORD PKWY	NS	118	146	28	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	EFFINGHAM ST	CRAWFORD PKWY	NAVAL MEDICAL CENTER	NS	123	151	28	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	LONDON BLVD	HIGH ST	NS	126	160	34	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	HIGH ST	COUNTY ST	NS	168	182	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	COUNTY ST	SOUTH ST	NS	162	150	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	SOUTH ST	I-264	NS	228	243	15	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	I-264	PORTSMOUTH BLVD	NS	228	248	20	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.2	0.0	0.4
PORT	ELM AVE	PORTSMOUTH BLVD	GEORGE WASHINGTON HWY	NS	80	143	63	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELM AVE	GEORGE WASHINGTON HWY	VICTORY BLVD	EW	113	305	192	-	-	-	-	-	-	-	-	-	-	0.2	0.0	0.2	0.0	0.4
PORT	ELM AVE	VICTORY BLVD	BURTONS POINT RD	EW	61	258	197	-	-	-	-	-	-	-	-	-	-	0.1	0.0	0.1	0.0	0.2
PORT	ELM AVE (S NORFOLK JORDAN BRIDGE)	BURTONS POINT RD	CHESAPEAKE CL	EW	61	258	197	-	-	-	-	-	-	-	-	-	-	0.5	0.0	0.3	0.0	0.9
PORT	ELMHURST LN	GARWOOD AVE	AIRLINE BLVD	NS	44	95	51	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	ELMHURST LN	AIRLINE BLVD	PORTSMOUTH BLVD	NS	69	57	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	FREDERICK BLVD	GEORGE WASHINGTON HWY	PORTSMOUTH BLVD	NS	550	765	215	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
PORT	FREDERICK BLVD	PORTSMOUTH BLVD	DEEP CREEK BLVD	NS	672	830	158	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	FREDERICK BLVD	DEEP CREEK BLVD	I-264	NS	915	1,049	134	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.8
PORT	FREDERICK BLVD	I-264	TURNPIKE RD	NS	1,620	1,357	(263)	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	1.0
PORT	FREDERICK BLVD	TURNPIKE RD	AIRLINE BLVD	NS	307	277	(30)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
PORT	FREDERICK BLVD	AIRLINE BLVD	HIGH ST	NS	205	264	59	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	GARWOOD AVE	GREENWOOD DR	ELMHURST LN	EW	356	362	6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	GEORGE WASHINGTON HWY	CHESAPEAKE CL	VICTORY BLVD	NS	987	1,199	212	-	-	-	-	-	-	-	-	-	-	0.4	0.7	0.5	0.2	1.8
PORT	GEORGE WASHINGTON HWY	VICTORY BLVD	DAVIS ST	NS	836	985	149	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
PORT	GEORGE WASHINGTON HWY	DAVIS ST	GREENWOOD DR	NS	920	1,069	149	-	-	-	-	-	-	-	-	-	-	0.5	0.7	0.5	0.2	1.9
PORT	GEORGE WASHINGTON HWY	GREENWOOD DR	FREDERICK BLVD	NS	991	1,144	153	-	-	-	-	-	-	-	-	-	-	0.5	0.8	0.6	0.2	2.1
PORT	GEORGE WASHINGTON HWY	FREDERICK BLVD	ELM AVE	NS	333	520	187	-	-	-	-	-	-	-	-	-	-	0.2	0.1	0.1	0.0	0.5
PORT	GEORGE WASHINGTON HWY	ELM AVE	PORTSMOUTH BLVD	NS	313	358	45	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
PORT	GREENWOOD DR	AIRLINE BLVD	I-264	EW	100	337	237	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.4
PORT	GREENWOOD DR	I-264	CAVALIER BLVD	EW	162	527	365	-	-	-	-	-	-	-	-	-	-	0.7	0.4	0.7	0.1	1.8
PORT	GREENWOOD DR	CAVALIER BLVD	VICTORY BLVD	EW	115	24	(91)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	GREENWOOD DR	VICTORY BLVD	INDEPENDENCE ST	EW	52	55	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	GREENWOOD DR	INDEPENDENCE ST	DEEP CREEK BLVD	EW	51	54	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	GREENWOOD DR	DEEP CREEK BLVD	GEORGE WASHINGTON HWY	EW	38	48	10	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	HIGH ST	TYRE NECK RD	CHURCHLAND BLVD	EW	219	426	207	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
PORT	HIGH ST	CHURCHLAND BLVD	CEDAR LA	EW	279	523	244	-	-	-	-	-	-	-	-	-	-	0.5	0.7	0.6	0.1	1.9
PORT	HIGH ST	CEDAR LA	FREDERICK BLVD	EW	330	648	318	-	-	-	-	-	-	-	-	-	-	5.0	5.5	4.9	0.7	16.2
PORT	HIGH ST	FREDERICK BLVD	AIRLINE BLVD	EW	133	254	121	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
PORT	HIGH ST	AIRLINE BLVD	MT VERNON AVE	EW	108	180	72	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	HIGH ST	MT VERNON AVE	M L K FWY	EW	114	291	177	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	HIGH ST	M L K FWY	ELM AVE	EW	130	150	20	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	HIGH ST	ELM AVE	EFFINGHAM ST	EW	105	121	16	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	HIGH ST	EFFINGHAM ST	CRAWFORD ST	EW	63	18	(45)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	LONDON BLVD	HIGH ST	MT VERNON AVE	EW	453	425	(28)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	LONDON BLVD	MT VERNON AVE	M L K FWY	EW	453	392	(61)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	LONDON BLVD	M L K FWY	ELM AVE	EW	514	298	(216)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
PORT	LONDON BLVD	ELM AVE	EFFINGHAM ST	EW	458	203	(255)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	LONDON ST	EFFINGHAM ST	CRAWFORD ST	EW	76	111	35	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	MIDTOWN TUNNEL	MLK FWY/WESTERN FREEWAY	NORFOLK CL	NS	1,771	1,862	91	-	-	-	-	-	-	-	-	-	-	2.2	2.4	2.5	0.2	7.3
PORT	MLK EXTENSION	I-264	HIGH ST	NS	-	1,072	1,072	0.1	0.2	0.0	0.0	0.3	0.1	0.5	0.4	0.1	1.0	0.1	0.7	0.4	0.1	1.3
PORT	M L K FREEWAY	HIGH ST	LONDON BLVD	NS	1,530	839	(691)	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.0	0.2
PORT	M L K FREEWAY	LONDON BLVD	WESTERN FREEWAY/MIDTOWN TUNNEL	NS	1,396	1,408	12	0.2	0.7	0.3	0.1	1.2	0.1	0.4	0.3	0.1	0.9	0.3	1.1	0.6	0.2	2.1
PORT	PORTCENTRE PKWY	PORTSMOUTH BLVD	CRAWFORD ST	NS	144	68	(76)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	CHESAPEAKE CL	ELMHURST LN	EW	257	405	148	-	-	-	-	-	-	-	-	-	-	1.5	1.5	1.7	0.2	4.9
PORT	PORTSMOUTH BLVD	ELMHURST LN	VICTORY BLVD	EW	201	192	(9)	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
PORT	PORTSMOUTH BLVD	VICTORY BLVD	AIRLINE BLVD	EW	142	63	(79)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	AIRLINE BLVD	TURNPIKE RD	EW	154	177	23	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	TURNPIKE RD	I-264	EW	112	20	(92)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	I-264	DEEP CREEK BLVD	EW	246	266	20	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0	0.0	0.2
PORT	PORTSMOUTH BLVD	DEEP CREEK BLVD	FREDERICK BLVD	EW	158	185	27	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	FREDERICK BLVD	ELM AVE	EW	228	197	(31)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	PORTSMOUTH BLVD	ELM AVE	EFFINGHAM ST	EW	60	15	(45)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	PORTSMOUTH BLVD	EFFINGHAM ST	PORTCENTRE PKWY	EW	41	3	(38)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	TOWNE POINT RD	SUFFOLK CL	TWIN PINES RD	EW	66	66	-	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
PORT	TOWNE POINT RD	TWIN PINES RD	WESTERN FREEWAY	EW	165	154	(11)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	TOWNE POINT RD	WESTERN FREEWAY	CHESAPEAKE CL	EW	152	191	39	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	TURNPIKE RD	PORTSMOUTH BLVD	FREDERICK BLVD	EW	571	476	(95)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
PORT	TURNPIKE RD	FREDERICK BLVD	HOWARD ST	EW	1,448	1,144	(304)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	TURNPIKE RD	HOWARD ST	HARBOR DR	EW	1,195	891	(304)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
PORT	TURNPIKE RD	HARBOR DR	COUNTY ST	EW	1,195	1,199	4	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	TWIN PINES RD	TOWNE POINT RD	HEDGEROW LN	NS	47	36	(11)	-	-	-	-	-	-	-	-	-	-	0.1	0.6	0.2	0.1	1.0
PORT	TYRE NECK RD	CHESAPEAKE CL	HIGH ST	NS	78	106	28	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
PORT	VICTORY BLVD	PORTSMOUTH BLVD	AIRLINE BLVD	EW	198	266	68	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	VICTORY BLVD	AIRLINE BLVD	I-264	EW	704	728	24	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
PORT	VICTORY BLVD	I-264	GREENWOOD DR	EW	531	563	32	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	1.0
PORT	VICTORY BLVD	GREENWOOD DR	DEEP CREEK BLVD	EW	379	426	47	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.8
PORT	VICTORY BLVD	DEEP CREEK BLVD	GEORGE WASHINGTON HWY	EW	533	581	48	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
PORT	VICTORY BLVD	GEORGE WASHINGTON HWY	AFTON PKWY	EW	315	341	26	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
PORT	VICTORY BLVD	AFTON PKWY	ELM AVE	EW	150	164	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
PORT	W NORFOLK RD	CHURCHLAND BLVD	TYRE NECK RD	EW	10	58	48	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
PORT	W NORFOLK RD	TYRE NECK RD	CEDAR LN	EW	18	66	48	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
PORT	W NORFOLK RD	CEDAR LN	WESTERN FWY	EW	14	94	80	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
PORT	WESTERN BRANCH BLVD	CHESAPEAKE CL	TYRE NECK RD	EW	243	425	182	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
PORT	WESTERN FWY	SUFFOLK CL	TOWN POINT RD	EW	2,492	2,740	248	1.9	3.0	1.2	0.3	6.5	0.5	2.7	3.4	0.5	7.1	2.4	5.7	4.6	0.9	13.6
PORT	WESTERN FWY	TOWN POINT RD	CEDAR LN	EW	2,298	2,466	168	2.4	3.2	1.2	0.4	7.2	0.3	2.2	3.7	0.5	6.7	2.7	5.4	4.9	1.0	13.9
PORT	WESTERN FWY	CEDAR LN	APM BLVD	EW	2,019	2,149	130	1.5	2.4	0.7	0.3	5.0	0.2	1.8	2.3	0.4	4.7	1.7	4.2	3.0	0.8	9.6
PORT	WESTERN FWY	APM BLVD	WEST NORFOLK RD	EW	2,019	2,151	132	0.9	1.5	0.4	0.2	3.0	0.1	1.1	1.4	0.3	2.9	1.0	2.6	1.9	0.5	5.9
PORT	WESTERN FWY	WEST NORFOLK RD	MLK FREEWAY/MIDTOWN TUNNEL	EW	2,634	2,918	284	19.7	13.4	2.1	1.0	36.3	0.5	8.1	37.0	1.7	47.3	20.2	21.5	39.1	2.7	83.5
SUF	BENNETTS PASTURE RD	NANSEMOND PKWY	KINGS HWY	NS	77	77	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
SUF	BENNETTS PASTURE RD	KINGS HWY	BRIDGE RD	NS	143	497	354	-	-	-	-	-	-	-	-	-	-	1.7	4.4	2.4	0.7	9.2
SUF	BRIDGE RD	ISLE OF WIGHT CL	E. END CHUCKATUCK BRIDGE	EW	472	620	148	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	BRIDGE RD	E. END CHUCKATUCK BRIDGE	CRITTENDEN RD	EW	472	620	148	-	-	-	-	-	-	-	-	-	-	1.2	0.8	2.2	0.2	4.3
SUF	BRIDGE RD	CRITTENDEN RD	N. END NANSEMOND RIVER	EW	595	822	227	-	-	-	-	-	-	-	-	-	-	0.3	0.4	0.4	0.1	1.1
SUF	BRIDGE RD	N. END NANSEMOND RIVER	S. END NANSEMOND RIVER	EW	595	829	234	-	-	-	-	-	-	-	-	-	-	2.6	5.7	5.4	0.7	14.5

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
SUF	BRIDGE RD	S. END NANSEMOND RIVER	BENNETTS PASTURE RD	EW	595	829	234	-	-	-	-	-	-	-	-	-	-	0.8	0.9	1.0	0.2	3.0
SUF	BRIDGE RD	BENNETTS PASTURE RD	SHOULDERS HILL RD	EW	818	1,310	492	-	-	-	-	-	-	-	-	-	-	7.0	9.8	9.1	1.2	27.1
SUF	BRIDGE RD	SHOULDERS HILL RD	HARBOUR VIEW BLVD	EW	1,045	1,558	513	-	-	-	-	-	-	-	-	-	-	3.7	6.4	4.5	0.9	15.5
SUF	BRIDGE RD	HARBOUR VIEW BLVD	WESTERN FWY	EW	904	1,800	896	-	-	-	-	-	-	-	-	-	-	0.7	2.8	1.3	0.5	5.3
SUF	BRIDGE RD	WESTERN FWY	I-664	EW	505	1,195	690	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.2
SUF	BRIDGE RD	I-664	COLLEGE DR	EW	238	671	433	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
SUF	BRIDGE RD	COLLEGE DR	CHESAPEAKE CL	EW	266	366	100	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	BUCKHORN DR	ROUTE 58	INDIAN TRAIL	NS	16	235	219	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.4
SUF	BUCKHORN DR	INDIAN TRAIL	ISLE OF WIGHT CL	NS	13	231	218	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
SUF	CAROLINA RD	NC STATE LINE	RTE 642	NS	309	343	34	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
SUF	CAROLINA RD	RTE 642	RTE 675	NS	344	387	43	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
SUF	CAROLINA RD	RTE 675	BABBTOWN RD (RTE 759)	NS	317	337	20	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.1	0.4
SUF	CAROLINA RD	BABBTOWN RD (RTE 759)	WHALEYVILLE BLVD	NS	347	355	8	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
SUF	CAROLINA RD	WHALEYVILLE BLVD	TURLINGTON RD	NS	2,068	2,322	254	-	-	-	-	-	-	-	-	-	-	0.7	2.1	1.0	0.5	4.3
SUF	CAROLINA RD	TURLINGTON RD	SW SUFFOLK BYPASS	NS	2,068	2,356	288	-	-	-	-	-	-	-	-	-	-	0.6	1.7	0.8	0.4	3.5
SUF	CAROLINA RD	SW SUFFOLK BYPASS	FAYETTE ST	NS	1,422	1,710	288	-	-	-	-	-	-	-	-	-	-	4.9	13.1	6.5	2.6	27.2
SUF	COLLEGE DR	BRIDGE RD	WESTERN FREEWAY	NS	175	193	18	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
SUF	COLLEGE DR	WESTERN FREEWAY	HAMPTON ROADS PKWY	NS	181	84	(97)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
SUF	COLLEGE DR	HAMPTON ROADS PKWY	I-664	NS	211	111	(100)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
SUF	COLLEGE DR	I-664	HARBOUR VIEW BLVD	NS	485	701	216	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5
SUF	CONSTANCE RD	HOLLAND RD	PITCHKETTLE RD	EW	100	231	131	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
SUF	CONSTANCE RD	PITCHKETTLE RD	MAIN ST	EW	109	156	47	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.1	1.4
SUF	CONSTANCE RD	MAIN ST	WILROY RD	EW	421	747	326	-	-	-	-	-	-	-	-	-	-	0.8	1.3	1.6	0.2	3.9
SUF	COPELAND RD	ROUTE 58	WHALEYVILLE BLVD	EW	40	79	39	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	COPELAND RD	WHALEYVILLE BLVD	CAROLINA RD	EW	37	53	16	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	CRITTENDEN RD	KINGS HWY	BRIDGE RD (RTE 17)	EW	84	303	219	-	-	-	-	-	-	-	-	-	-	1.3	1.7	1.8	0.3	5.0
SUF	EVERETTS RD	LAKE PRINCE DR (RTE 604)	MOORE FARM LN	EW	49	106	57	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
SUF	EVERETTS RD	MOORE FARM LN	GODWIN BLVD	EW	47	61	14	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
SUF	FINNEY AVE	N MAIN ST	PINNER ST	EW	45	92	47	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
SUF	GODWIN BLVD	PRUDEN BLVD	SUFFOLK BYPASS	NS	878	934	56	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6
SUF	GODWIN BLVD	SUFFOLK BYPASS	KINGS FORK RD	NS	931	1,623	692	-	-	-	-	-	-	-	-	-	-	3.8	3.4	6.3	0.5	14.1
SUF	GODWIN BLVD	KINGS FORK ROAD	1.36 MI N OF KINGS FORK RD	NS	501	1,122	621	-	-	-	-	-	-	-	-	-	-	0.5	0.5	0.6	0.1	1.6
SUF	GODWIN BLVD	1.36 MILES N OF KINGS FORK RD	EVERETS RD	NS	501	1,111	610	-	-	-	-	-	-	-	-	-	-	9.3	6.0	12.5	1.0	28.7
SUF	GODWIN BLVD	EVERETS RD	KINGS HWY	NS	520	1,072	552	-	-	-	-	-	-	-	-	-	-	4.6	3.9	6.7	0.5	15.7
SUF	GODWIN BLVD	KINGS HWY	ISLE OF WIGHT CL	NS	434	810	376	-	-	-	-	-	-	-	-	-	-	2.7	2.4	3.9	0.4	9.4
SUF	HAMPTON ROADS PKWY	HARBOUR VIEW BLVD	COLLEGE DR	EW	117	118	1	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
SUF	HAMPTON ROADS PKWY	COLLEGE DR	PORTSMOUTH CL	EW	53	-	(53)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	HARBOUR VIEW BLVD	BRIDGE RD	HAMPTON ROADS PKWY	NS	207	857	650	-	-	-	-	-	-	-	-	-	-	0.7	2.1	0.7	0.4	3.9
SUF	HARBOUR VIEW BLVD	HAMPTON ROADS PKWY	COLLEGE DR	NS	110	118	8	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	HOLLAND RD (BUS RTE 58)	SUFFOLK BYPASS	CONSTANCE RD	EW	194	367	173	-	-	-	-	-	-	-	-	-	-	0.7	1.3	0.8	0.2	3.1
SUF	HOLLAND RD (BUS RTE 58)	RURITAN BLVD	HOLLAND RD (RTE 58)	EW	68	86	18	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	KINGS FORK RD	PITCHKETTLE RD	PRUDEN BLVD	EW	63	262	199	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
SUF	KINGS FORK RD	PRUDEN BLVD	GODWIN BLVD	EW	113	294	181	-	-	-	-	-	-	-	-	-	-	0.4	1.3	0.7	0.3	2.7
SUF	KINGS HWY	GODWIN BLVD	CRITTENDEN RD	EW	133	365	232	-	-	-	-	-	-	-	-	-	-	0.2	0.2	0.2	0.0	0.7
SUF	KINGS HWY	BENNETTS PASTURE RD	NANSEMOND PKWY	EW	124	131	7	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.0	0.0	0.2
SUF	LAKE PRINCE DR (RTE 604)	ROUTE 460 (PRUDEN BLVD)	ROUTE 603 (EVERETTS RD)	NS	38	-	(38)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	MAIN ST	FAYETTE ST	WASHINGTON ST	NS	112	365	253	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
SUF	MAIN ST	WASHINGTON ST	MARKET ST	NS	188	445	257	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
SUF	MAIN ST	MARKET ST	CONSTANCE RD	NS	188	561	373	-	-	-	-	-	-	-	-	-	-	0.5	1.7	1.0	0.2	3.4
SUF	MAIN ST	CONSTANCE RD	PRUDEN BLVD/GODWIN BLVD	NS	255	557	302	-	-	-	-	-	-	-	-	-	-	0.4	1.2	0.6	0.2	2.5
SUF	MARKET ST	WASHINGTON ST	MAIN ST	EW	39	38	(1)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	NANSEMOND PKWY	WILROY RD	BENNETTS PASTURE RD	NS	403	-	(403)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	NANSEMOND PKWY	BENNETTS PASTURE RD	KINGS HWY	NS	298	-	(298)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	NANSEMOND PKWY	KINGS HWY	SHOULDERS HILL RD	EW	828	-	(828)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	NANSEMOND PKWY	SHOULDERS HILL RD	CHESAPEAKE CL	EW	594	-	(594)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	PINNER ST	WASHINGTON ST	BANK ST	EW	72	115	43	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	PINNER ST	BANK ST	FINNEY AVE	EW	72	104	32	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
SUF	PINNER ST	FINNEY AVE	CONSTANCE RD	EW	121	98	(23)	-	-	-	-	-	-	-	-	-	-	0.4	0.5	0.5	0.1	1.5

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Truck Volume	20-Year Forecast Truck Volume	Change in Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00PM (hours)	TOTAL Truck Delay (hours)
SUF	PITCHKETTLE RD	CONSTANCE RD	SUFFOLK BYPASS	NS	40	271	231	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
SUF	PITCHKETTLE RD	SUFFOLK BYPASS	KINGS FORK RD	NS	45	308	263	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.2	1.7
SUF	PORTSMOUTH BLVD	WILROY RD	WASHINGTON ST	EW	432	554	122	-	-	-	-	-	-	-	-	-	-	0.6	0.9	0.8	0.2	2.5
SUF	PORTSMOUTH BLVD	WASHINGTON ST	SUFFOLK BYPASS	EW	695	777	82	-	-	-	-	-	-	-	-	-	-	2.2	2.3	2.8	0.3	7.7
SUF	PROVIDENCE RD (RTE 604)	KINGS FORK RD	ROUTE 460 (PRUDEN BLVD)	NS	24	208	184	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
SUF	PRUDEN BLVD	ISLE OF WIGHT CL	LAKE PRINCE DR	EW	3,345	2,600	(745)	-	-	-	-	-	-	-	-	-	-	4.4	9.3	5.2	2.1	21.1
SUF	PRUDEN BLVD	LAKE PRINCE DR	KINGS FORK RD	EW	4,070	2,900	(1,170)	-	-	-	-	-	-	-	-	-	-	1.0	1.9	1.2	0.5	4.6
SUF	PRUDEN BLVD	KINGS FORK RD	SUFFOLK BYPASS	EW	4,061	2,900	(1,161)	-	-	-	-	-	-	-	-	-	-	5.1	10.4	6.3	2.2	24.0
SUF	PRUDEN BLVD	SUFFOLK BYPASS	GODWIN BLVD	EW	95	226	131	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.2
SUF	PUGHVILLE RD	SHOULDERS HILL RD	TOWN POINT RD	EW	41	-	(41)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	PUGHVILLE RD	TOWN POINT RD	CHESAPEAKE CL	EW	457	-	(457)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	ROUTE 13/58/460	SUFFOLK BYPASS	CHESAPEAKE CL	EW	5,370	5,911	541	93.1	70.9	18.2	7.6	189.9	8.7	55.6	93.1	11.7	169.2	101.9	126.6	111.4	19.3	359.1
SUF	ROUTE 58	SOUTHAMPTON CL	RTE 189/258	EW	3,047	3,640	593	-	-	-	-	-	-	-	-	-	-	0.8	2.6	0.9	0.5	4.8
SUF	ROUTE 58	RTE 189/258	RTE 272 (S. QUAY RD)	EW	2,741	3,170	429	-	-	-	-	-	-	-	-	-	-	0.7	2.2	0.8	0.5	4.1
SUF	ROUTE 58	RTE 272	S. QUAY RD (ROUTE 189)	EW	3,260	3,713	453	-	-	-	-	-	-	-	-	-	-	3.4	10.5	3.8	2.4	20.2
SUF	ROUTE 58 (HOLLAND BYPASS)	S. QUAY RD (ROUTE 189)	BUS RTE 58 (HOLLAND RD)	EW	3,293	3,751	458	-	-	-	-	-	-	-	-	-	-	1.1	3.4	1.3	0.8	6.6
SUF	ROUTE 58 (HOLLAND RD)	BUS RTE 58 (HOLLAND RD)	RTE 649 (LUMMIS RD)	EW	3,871	4,350	479	-	-	-	-	-	-	-	-	-	-	6.3	19.2	7.6	4.4	37.5
SUF	ROUTE 58 (HOLLAND RD)	RTE 649 (LUMMIS RD)	RTE 643 (MANNING BRIDGE RD)	EW	4,073	4,616	543	-	-	-	-	-	-	-	-	-	-	5.1	14.9	5.7	3.1	28.8
SUF	ROUTE 58 (HOLLAND RD)	RTE. 643 (MANNING BRIDGE RD)	COVE POINT DR	EW	4,876	5,365	489	-	-	-	-	-	-	-	-	-	-	2.7	8.0	3.0	1.7	15.4
SUF	ROUTE 58 (HOLLAND RD)	COVE POINT DR	SUFFOLK BYPASS	EW	5,279	5,742	463	-	-	-	-	-	-	-	-	-	-	3.4	9.7	3.6	2.1	18.8
SUF	ROUTE 189 (IN HOLLAND)	RTE 58 (SOUTH OF HOLLAND)	BUS RTE 58 (RURITAN BLVD)	EW	91	96	5	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	ROUTE 189	SOUTHAMPTON CL	RTE 272	EW	269	356	87	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.3
SUF	ROUTE 189	RTE 272	RTE 58	EW	349	448	99	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	ROUTE 258	RTE 58	ISLE OF WIGHT CL	NS	171	262	91	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	ROUTE 272	ROUTE 189	ROUTE 58	EW	67	126	59	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	ROUTE 460 RELOCATED	ISLE OF WIGHT CL	SUFFOLK BYPASS	EW	-	2,900	2,900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUF	ROUTE 616	ROUTE 58	WHALEYVILLE BLVD	EW	4	532	528	-	-	-	-	-	-	-	-	-	-	0.6	2.1	0.6	0.4	3.7
SUF	ROUTE 616	WHALEYVILLE BLVD	CAROLINA RD	EW	2	2	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
SUF	RURITAN BLVD (BUS RTE 58)	ISLE OF WIGHT CL	RTE 189 (HOLLAND RD BUS)	EW	50	67	17	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
SUF	SHOULDERS HILL RD	NANSEMOND PKWY	PUGHVILLE RD	NS	202	202	-	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
SUF	SHOULDERS HILL RD	PUGHVILLE RD	BRIDGE RD	NS	306	536	230	-	-	-	-	-	-	-	-	-	-	0.6	1.7	1.4	0.3	4.0
SUF	SOUTHWEST SUFFOLK BYPASS	HOLLAND RD	CAROLINA RD	NS	1,274	1,431	157	0.1	0.2	0.1	0.0	0.4	0.1	0.2	0.1	0.0	0.5	0.1	0.4	0.2	0.1	0.9
SUF	SUFFOLK BYPASS	HOLLAND RD	PITCHKETTLE RD	EW	4,785	5,956	1,171	2.6	6.9	3.1	1.3	14.0	2.3	6.8	3.4	1.4	14.0	4.9	13.7	6.6	2.7	27.9
SUF	SUFFOLK BYPASS	PITCHKETTLE RD	PRUDEN BLVD	EW	2,704	3,830	1,126	1.5	4.2	1.8	0.8	8.2	1.3	4.1	2.0	0.8	8.3	2.8	8.3	3.8	1.6	16.5
SUF	SUFFOLK BYPASS	PRUDEN BLVD	GODWIN BLVD	EW	3,162	4,178	1,016	2.9	7.5	3.7	1.2	15.2	2.7	8.6	6.4	1.6	19.3	5.6	16.0	10.1	2.8	34.5
SUF	SUFFOLK BYPASS	GODWIN BLVD	WILROY RD	EW	3,999	4,562	563	21.0	28.2	10.7	3.8	63.8	5.8	26.3	23.1	5.1	60.3	26.8	54.5	33.8	8.9	124.1
SUF	SUFFOLK BYPASS	WILROY RD	ROUTES 13/58/460	EW	3,306	3,764	458	6.5	9.6	2.8	1.8	20.7	2.1	9.0	6.2	2.1	19.4	8.6	18.6	9.0	3.9	40.1
SUF	TOWN POINT RD	PUGHVILLE RD	BRIDGE RD	NS	20	478	458	-	-	-	-	-	-	-	-	-	-	1.3	4.0	1.5	0.7	7.6
SUF	WASHINGTON ST	W CONSTANCE RD	SARATOGA ST	EW	102	363	261	-	-	-	-	-	-	-	-	-	-	0.7	3.0	1.4	0.4	5.5
SUF	WASHINGTON ST	SARATOGA ST	MAIN ST	EW	102	233	131	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
SUF	WASHINGTON ST	MAIN ST	PINNER ST	EW	117	255	138	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.1	0.1	0.7
SUF	WASHINGTON ST	PINNER ST	PORTSMOUTH BLVD	EW	137	273	136	-	-	-	-	-	-	-	-	-	-	3.2	13.1	5.4	2.0	23.7
SUF	WESTERN FWY	BRIDGE RD	I-664	EW	1,046	1,615	569	0.2	0.4	0.1	0.1	0.7	0.1	0.6	0.2	0.1	1.1	0.4	1.0	0.3	0.2	1.8
SUF	WESTERN FWY	I-664	COLLEGE DR	EW	2,066	2,227	161	0.4	0.7	0.3	0.1	1.5	0.1	0.5	0.5	0.1	1.2	0.5	1.2	0.8	0.2	2.7
SUF	WESTERN FWY	COLLEGE DR	PORTSMOUTH CL	EW	2,492	2,740	248	0.2	0.5	0.2	0.1	0.9	0.1	0.4	0.4	0.1	1.0	0.3	0.9	0.6	0.1	1.9
SUF	WHALEYVILLE BLVD	NC STATE LINE	RTE 616 (MINERAL SPRING RD)	NS	611	761	150	-	-	-	-	-	-	-	-	-	-	0.8	2.5	0.9	0.6	4.8
SUF	WHALEYVILLE BLVD	RTE 616 (MINERAL SPRING RD)	RTE 677 (GREAT FORK RD)	NS	763	937	174	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.4	0.2	2.1
SUF	WHALEYVILLE BLVD	RTE 677 (GREAT FORK RD)	RTE 675 (CYPRESS CHAPEL RD)	NS	956	1,131	175	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.4	0.2	1.9
SUF	WHALEYVILLE BLVD	RTE 675 (CYPRESS CHAPEL RD)	RTE 759 (BABBTOWN RD)	NS	1,123	1,289	166	-	-	-	-	-	-	-	-	-	-	1.8	4.7	2.3	1.1	9.9
SUF	WHALEYVILLE BLVD	RTE 759 (BABBTOWN RD)	RTE 32 (CAROLINA RD)	NS	1,200	1,384	184	-	-	-	-	-	-	-	-	-	-	1.7	4.7	2.6	1.1	10.1
SUF	WILROY RD	CONSTANCE RD	SUFFOLK BYPASS	NS	190	340	150	-	-	-	-	-	-	-	-	-	-	0.6	1.4	0.7	0.3	3.0
SUF	WILROY RD	SUFFOLK BYPASS	NANSEMOND PKWY	NS	384	650	266	-	-	-	-	-	-	-	-	-	-	1.8	2.8	2.2	0.5	7.3
VB	21ST ST	PACIFIC AVE	PACIFIC AVE	EW	180	193	13	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.1	1.3
VB	21ST ST	PACIFIC AVE	ATLANTIC AVE	EW	61	83	22	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	22ND ST	PARKS AVE	PACIFIC AVE	EW	161	200	39	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
VB	22ND ST	PACIFIC AVE	ATLANTIC AVE	EW	38	54	16	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	ATLANTIC AVE	83RD ST	PACIFIC AVE	NS	231	228	(3)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
VB	ATLANTIC AVE	PACIFIC AVE	LASKIN RD	NS	204	190	(14)	-	-	-	-	-	-	-	-	-	-	0.5	1.8	0.5	0.4	3.1

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
VB	ATLANTIC AVE	LASKIN RD	22ND ST	NS	367	361	(6)	-	-	-	-	-	-	-	-	-	-	0.8	2.8	1.0	0.5	5.0
VB	ATLANTIC AVE	22ND ST	21ST ST	NS	367	382	15	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
VB	ATLANTIC AVE	21ST ST	VA BEACH BLVD	NS	410	410	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	ATLANTIC AVE	VA BEACH BLVD	5TH ST	NS	85	85	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	BAXTER RD	PRINCESS ANNE RD	INDEPENDENCE BLVD	NS	204	198	(6)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.0
VB	BIRDNECK RD	GENERAL BOOTH BLVD	NORFOLK AVE	NS	245	234	(11)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.2
VB	BIRDNECK RD	NORFOLK AVE	VA BEACH BLVD	NS	245	289	44	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
VB	BIRDNECK RD	VA BEACH BLVD	I-264	NS	668	702	34	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.6
VB	BIRDNECK RD	I-264	LASKIN RD	NS	439	426	(13)	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.4	0.2	1.9
VB	BLACKWATER RD	PUNGO FERRY RD	CHESAPEAKE CL	NS	137	150	13	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.4
VB	BONNEY RD	INDEPENDENCE BLVD	ROSEMONT RD	EW	162	157	(5)	-	-	-	-	-	-	-	-	-	-	0.3	1.1	0.5	0.2	2.1
VB	CENTERVILLE TNPK	CHESAPEAKE CL	LYNNHAVEN PKWY	NS	379	542	163	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
VB	CENTERVILLE TNPK	LYNNHAVEN PKWY	KEMPSVILLE RD	NS	431	434	3	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.4	0.2	1.9
VB	CENTERVILLE TNPK	KEMPSVILLE RD	JAKE SEARS RD	NS	562	654	92	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
VB	CENTERVILLE TNPK	JAKE SEARS RD	INDIAN RIVER RD	NS	604	667	63	-	-	-	-	-	-	-	-	-	-	0.7	2.4	0.9	0.5	4.5
VB	CHESAPEAKE BAY BRIDGE-TUNNEL	SHORE DR	TOLL PLAZA	NS	1,112	1,354	242	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
VB	CHESAPEAKE BAY BRIDGE-TUNNEL	TOLL PLAZA	NCL VA BEACH	NS	1,112	1,760	648	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	COLUMBUS ST	INDEPENDENCE BLVD	CONSTITUTION DR	EW	96	106	10	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
VB	CONSTITUTION DR	COLUMBUS ST	VIRGINIA BEACH BLVD	NS	27	74	47	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	DAM NECK RD	SALEM RD	VA BEACH AMPHITHEATER	EW	194	212	18	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
VB	DAM NECK RD	VA BEACH AMPHITHEATER	PRINCESS ANNE RD	EW	245	263	18	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
VB	DAM NECK RD	PRINCESS ANNE RD	ROSEMONT RD	EW	227	166	(61)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6
VB	DAM NECK RD	ROSEMONT RD	HOLLAND RD	EW	227	140	(87)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.6
VB	DAM NECK RD	HOLLAND RD	DRAKESMILE RD	EW	517	430	(87)	-	-	-	-	-	-	-	-	-	-	0.6	1.4	0.9	0.2	3.1
VB	DAM NECK RD	DRAKESMILE RD	LONDON BRIDGE RD	EW	467	356	(111)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.1	0.6
VB	DAM NECK RD	LONDON BRIDGE RD	HARPERS RD	EW	325	421	96	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
VB	DAM NECK RD	HARPERS RD	GENERAL BOOTH BLVD	EW	302	362	60	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.1	0.7
VB	DAM NECK RD	GENERAL BOOTH BLVD	UPTON DR	EW	378	522	144	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
VB	DAM NECK RD	UPTON DR	USN TRAINING CENTER	EW	242	386	144	-	-	-	-	-	-	-	-	-	-	1.0	2.9	1.3	0.6	5.7
VB	DIAMOND SPRINGS RD	NEWTOWN RD	WESLEYAN RD	NS	260	235	(25)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
VB	DIAMOND SPRINGS RD	WESLEYAN RD	NORTHAMPTON BLVD	NS	268	269	1	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.7
VB	DIAMOND SPRINGS RD	NORTHAMPTON BLVD	SHORE DR	NS	746	735	(11)	-	-	-	-	-	-	-	-	-	-	0.4	1.3	0.7	0.3	2.6
VB	DRAKESMILE RD	DAM NECK RD	SHIPPS CORNER RD	NS	383	397	14	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	ELBOW RD	CHESAPEAKE CL	INDIAN RIVER RD	EW	25	-	(25)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	ELBOW RD	INDIAN RIVER RD	SALEM RD	EW	33	90	57	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.3
VB	FERRELL PKWY	INDIAN RIVER RD	INDIAN LAKES BLVD	EW	1,025	1,021	(4)	-	-	-	-	-	-	-	-	-	-	1.1	1.7	1.4	0.3	4.5
VB	FERRELL PKWY	INDIAN LAKES BLVD	PLEASANT VALLEY RD	EW	949	954	5	-	-	-	-	-	-	-	-	-	-	1.9	3.2	2.6	0.5	8.2
VB	FERRELL PKWY	PLEASANT VALLEY RD	PRINCESS ANNE RD	EW	848	854	6	-	-	-	-	-	-	-	-	-	-	1.5	2.1	1.9	0.4	5.9
VB	FIRST COLONIAL RD	VA BEACH BLVD	I-264	NS	219	181	(38)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	FIRST COLONIAL RD	I-264	LASKIN RD	NS	273	267	(6)	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
VB	FIRST COLONIAL RD	LASKIN RD	OLD DONATION PKWY	NS	285	270	(15)	-	-	-	-	-	-	-	-	-	-	0.3	1.2	0.5	0.2	2.2
VB	FIRST COLONIAL RD	OLD DONATION PKWY	GREAT NECK RD	NS	285	261	(24)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
VB	GENERAL BOOTH BLVD	PRINCESS ANNE RD	NIMMO PKWY	NS	578	625	47	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	0.9
VB	GENERAL BOOTH BLVD	NIMMO PKWY	LONDON BRIDGE RD	NS	548	449	(99)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.4
VB	GENERAL BOOTH BLVD	LONDON BRIDGE RD	DAM NECK RD	NS	454	395	(59)	-	-	-	-	-	-	-	-	-	-	0.9	3.6	1.7	0.5	6.7
VB	GENERAL BOOTH BLVD	DAM NECK RD	OCEANA BLVD/PROSPERITY RD	NS	606	546	(60)	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.6	0.2	2.1
VB	GENERAL BOOTH BLVD	OCEANA BLVD/PROSPERITY RD	BIRDNECK RD	NS	371	379	8	-	-	-	-	-	-	-	-	-	-	0.2	0.9	0.4	0.1	1.6
VB	GENERAL BOOTH BLVD	BIRDNECK RD	HARBOR POINT	NS	276	271	(5)	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.9
VB	GREAT NECK RD	VA BEACH BLVD	OLD DONATION PKWY	NS	313	358	45	-	-	-	-	-	-	-	-	-	-	0.5	1.7	0.8	0.3	3.3
VB	GREAT NECK RD	OLD DONATION PKWY	FIRST COLONIAL RD	NS	294	307	13	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
VB	GREAT NECK RD	FIRST COLONIAL RD	SHOREHAVEN RD	NS	327	315	(12)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	GREAT NECK RD	SHOREHAVEN RD	SHORE DR	NS	288	276	(12)	-	-	-	-	-	-	-	-	-	-	0.4	1.3	0.7	0.2	2.6
VB	HARPERS RD	DAM NECK RD	OCEANA BLVD	EW	115	149	34	-	-	-	-	-	-	-	-	-	-	0.4	0.4	0.4	0.1	1.3
VB	HAYGOOD RD	NEWTOWN RD	WESLEYAN DR	EW	170	170	-	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	HAYGOOD RD	WESLEYAN DR	INDEPENDENCE BLVD	EW	163	250	87	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
VB	HOLLAND RD	INDEPENDENCE BLVD	SOUTH PLAZA TRAIL	NS	419	265	(154)	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
VB	HOLLAND RD	SOUTH PLAZA TRAIL	ROSEMONT RD	NS	363	269	(94)	-	-	-	-	-	-	-	-	-	-	0.6	1.4	0.9	0.3	3.2
VB	HOLLAND RD	ROSEMONT RD	LYNNHAVEN PKWY	NS	288	206	(82)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.3	0.1	1.2
VB	HOLLAND RD	LYNNHAVEN PKWY	DAM NECK RD	NS	380	274	(106)	-	-	-	-	-	-	-	-	-	-	0.7	2.2	1.2	0.4	4.5
VB	HOLLAND RD	DAM NECK RD	FUTURE NIMMO PKWY	NS	172	186	14	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
VB	HOLLAND RD	FUTURE NIMMO PKWY	PRINCESS ANNE RD	NS	145	128	(17)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
VB	INDEPENDENCE BLVD	INDIAN RIVER RD	SALEM RD	NS	80	188	108	-	-	-	-	-	-	-	-	-	-	0.7	1.6	1.0	0.2	3.5
VB	INDEPENDENCE BLVD	SALEM RD	PRINCESS ANNE RD	NS	225	225	-	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8
VB	INDEPENDENCE BLVD	PRINCESS ANNE RD	LYNNHAVEN PKWY	NS	347	381	34	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.2	1.6
VB	INDEPENDENCE BLVD	LYNNHAVEN PKWY	PLAZA TRAIL	NS	328	335	7	-	-	-	-	-	-	-	-	-	-	0.5	2.0	0.8	0.3	3.6
VB	INDEPENDENCE BLVD	PLAZA TRAIL	HOLLAND RD	NS	449	409	(40)	-	-	-	-	-	-	-	-	-	-	0.3	1.1	0.5	0.2	2.0
VB	INDEPENDENCE BLVD	HOLLAND RD	BAXTER RD	NS	726	569	(157)	-	-	-	-	-	-	-	-	-	-	0.7	2.5	1.0	0.5	4.7
VB	INDEPENDENCE BLVD	BAXTER RD	I-264	NS	845	756	(89)	-	-	-	-	-	-	-	-	-	-	0.7	2.9	2.2	0.5	6.3
VB	INDEPENDENCE BLVD	I-264	BONNEY RD	NS	761	616	(145)	-	-	-	-	-	-	-	-	-	-	0.5	2.7	0.8	0.4	4.4
VB	INDEPENDENCE BLVD	BONNEY RD	COLUMBUS ST	NS	761	655	(106)	-	-	-	-	-	-	-	-	-	-	0.3	1.8	0.5	0.3	3.0
VB	INDEPENDENCE BLVD	COLUMBUS ST	VA BEACH BLVD	NS	540	436	(104)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.5
VB	INDEPENDENCE BLVD	VA BEACH BLVD	JEANNE ST	NS	478	497	19	-	-	-	-	-	-	-	-	-	-	0.5	2.1	1.0	0.3	3.8
VB	INDEPENDENCE BLVD	JEANNE ST	PEMBROKE BLVD	NS	478	441	(37)	-	-	-	-	-	-	-	-	-	-	0.6	1.8	1.0	0.3	3.7
VB	INDEPENDENCE BLVD	PEMBROKE BLVD	HAYGOOD RD	NS	440	420	(20)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	INDEPENDENCE BLVD	HAYGOOD RD	NORTHAMPTON BLVD	NS	387	329	(58)	-	-	-	-	-	-	-	-	-	-	0.5	1.5	1.0	0.2	3.2
VB	INDEPENDENCE BLVD	NORTHAMPTON BLVD	SHORE DR	NS	231	93	(138)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	INDIAN LAKES BLVD	FERRELL PKWY	INDIAN RIVER RD	NS	268	286	18	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
VB	INDIAN RIVER RD	CHESAPEAKE CL	MILITARY HWY	EW	375	410	35	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
VB	INDIAN RIVER RD	MILITARY HWY	PROVIDENCE RD	EW	376	415	39	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
VB	INDIAN RIVER RD	PROVIDENCE RD	I-64	EW	465	541	76	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.4	0.1	1.3
VB	INDIAN RIVER RD	I-64	CENTERVILLE TNPK	EW	1,555	1,615	60	-	-	-	-	-	-	-	-	-	-	6.2	17.1	10.1	3.0	36.4
VB	INDIAN RIVER RD	CENTERVILLE TNPK	KEMPSVILLE RD	EW	1,267	1,268	1	-	-	-	-	-	-	-	-	-	-	2.0	4.1	3.0	0.8	9.9
VB	INDIAN RIVER RD	KEMPSVILLE RD	FERRELL PKWY	EW	1,250	1,207	(43)	-	-	-	-	-	-	-	-	-	-	1.9	3.4	2.2	0.6	8.0
VB	INDIAN RIVER RD	FERRELL PKWY	INDIAN LAKES BLVD	EW	236	162	(74)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.1	0.5
VB	INDIAN RIVER RD	INDIAN LAKES BLVD	LYNNHAVEN PKWY	EW	530	477	(53)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.2	1.6
VB	INDIAN RIVER RD	LYNNHAVEN PKWY	INDEPENDENCE BLVD	EW	208	315	107	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.5	0.1	1.7
VB	INDIAN RIVER RD	INDEPENDENCE BLVD	ELBOW RD	EW	130	148	18	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
VB	INDIAN RIVER RD	ELBOW RD	S.E. PARKWAY	EW	78	78	-	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.0	0.0	0.2
VB	INDIAN RIVER RD	S.E. PARKWAY	NORTH LANDING RD	EW	78	88	10	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
VB	INDIAN RIVER RD	NORTH LANDING RD	WEST NECK RD	EW	117	114	(3)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	INDIAN RIVER RD	WEST NECK RD	PRINCESS ANNE RD	EW	117	123	6	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
VB	INTERNATIONAL PKWY	LYNNHAVEN PKWY	LONDON BRIDGE RD	EW	342	273	(69)	-	-	-	-	-	-	-	-	-	-	0.6	1.3	0.7	0.2	2.8
VB	KEMPSVILLE RD	CHESAPEAKE CL	CENTERVILLE TNPK	EW	280	58	(222)	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
VB	KEMPSVILLE RD	CENTERVILLE TNPK	INDIAN RIVER RD	EW	303	336	33	-	-	-	-	-	-	-	-	-	-	1.0	1.8	1.6	0.3	4.7
VB	KEMPSVILLE RD	INDIAN RIVER RD	PROVIDENCE RD	EW	226	328	102	-	-	-	-	-	-	-	-	-	-	0.8	1.7	1.1	0.4	4.0
VB	KEMPSVILLE RD	PROVIDENCE RD	PRINCESS ANNE RD	EW	244	337	93	-	-	-	-	-	-	-	-	-	-	1.6	4.1	2.5	0.6	8.9
VB	LASKIN RD	VA BEACH BLVD	FIRST COLONIAL RD	EW	262	312	50	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.3	0.1	1.4
VB	LASKIN RD	FIRST COLONIAL RD	WINWOOD DR	EW	170	208	38	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	LASKIN RD	WINWOOD DR	BIRDNECK RD	EW	170	206	36	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	LASKIN RD	BIRDNECK RD	30TH ST	EW	219	235	16	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	LASKIN RD	30TH ST	PACIFIC AVE	EW	266	239	(27)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	LASKIN RD/31ST ST	PACIFIC AVE	ATLANTIC AVE	EW	55	43	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	LONDON BRIDGE RD	GENERAL BOOTH BLVD	DAM NECK RD	NS	342	113	(229)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	LONDON BRIDGE RD	DAM NECK RD	DRAKESMILE RD	NS	166	144	(22)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.6
VB	LONDON BRIDGE RD	SHIPPS CORNER RD/DRAKESMILE RD	INTERNATIONAL PKWY	NS	189	196	7	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.5	0.1	1.9
VB	LONDON BRIDGE RD	INTERNATIONAL PKWY	POTTERS RD	NS	502	724	222	-	-	-	-	-	-	-	-	-	-	2.0	4.8	2.7	0.6	10.2
VB	LONDON BRIDGE RD	POTTERS RD	I-264	NS	263	592	329	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.6
VB	LONDON BRIDGE RD	I-264	VA BEACH BLVD	NS	176	257	81	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	LYNNHAVEN PKWY	CHESAPEAKE CL	CENTERVILLE TNPK	EW	34	609	575	-	-	-	-	-	-	-	-	-	-	0.6	1.0	0.8	0.2	2.5
VB	LYNNHAVEN PKWY	CENTERVILLE TNPK	INDIAN RIVER RD	EW	-	689	689	-	-	-	-	-	-	-	-	-	-	1.1	1.8	1.3	0.3	4.5
VB	LYNNHAVEN PKWY	INDIAN RIVER RD	SALEM RD	EW	126	190	64	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.5	0.2	1.8
VB	LYNNHAVEN PKWY	SALEM RD	PRINCESS ANNE RD	EW	124	355	231	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	0.9

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
VB	LYNNHAVEN PKWY	PRINCESS ANNE RD	INDEPENDENCE BLVD	EW	151	187	36	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.2	0.1	0.9
VB	LYNNHAVEN PKWY	INDEPENDENCE BLVD	ROSEMONT RD	EW	304	269	(35)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
VB	LYNNHAVEN PKWY	ROSEMONT RD	HOLLAND RD	EW	157	124	(33)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
VB	LYNNHAVEN PKWY	HOLLAND RD	S LYNNHAVEN RD	EW	337	330	(7)	-	-	-	-	-	-	-	-	-	-	1.2	3.5	1.5	0.5	6.7
VB	LYNNHAVEN PKWY	S LYNNHAVEN RD	INTERNATIONAL PKWY	NS	337	332	(5)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.1	1.4
VB	LYNNHAVEN PKWY	INTERNATIONAL PKWY	POTTERS RD	NS	394	277	(117)	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.4	0.1	1.7
VB	LYNNHAVEN PKWY	POTTERS RD	I-264	NS	654	442	(212)	-	-	-	-	-	-	-	-	-	-	0.3	0.8	0.5	0.1	1.7
VB	LYNNHAVEN PKWY	I-264	VA BEACH BLVD	NS	260	298	39	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
VB	MILITARY HWY	CHESAPEAKE CL	PROVIDENCE RD	NS	751	870	119	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.6
VB	MILITARY HWY	PROVIDENCE RD	INDIAN RIVER RD	NS	663	779	116	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.7
VB	MILITARY HWY	INDIAN RIVER RD	NORFOLK CL	NS	646	825	179	-	-	-	-	-	-	-	-	-	-	0.6	1.1	0.8	0.2	2.6
VB	NEWTOWN RD	NORFOLK CL	BAKER RD	NS	378	343	(35)	-	-	-	-	-	-	-	-	-	-	0.3	1.1	0.4	0.2	2.0
VB	NEWTOWN RD	BAKER RD	DIAMOND SPRINGS RD	NS	282	245	(37)	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.9
VB	NEWTOWN RD	DIAMOND SPRINGS RD	HAYGOOD RD	EW	51	63	12	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.7
VB	NIMMO PKWY	NORTH LANDING RD	WEST NECK RD	EW	-	4	4	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	NIMMO PKWY	WEST NECK RD	PRINCESS ANNE RD	EW	209	240	31	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.1
VB	NIMMO PKWY	PRINCESS ANNE RD	HOLLAND RD	EW	95	346	251	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.5
VB	NIMMO PKWY	HOLLAND RD	GENERAL BOOTH BLVD	EW	-	231	231	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.5	0.2	2.0
VB	NIMMO PKWY	GENERAL BOOTH BLVD	UPTON DR	EW	253	146	(107)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
VB	NORFOLK AVE	BIRDNECK RD	PACIFIC AVE	EW	87	102	15	-	-	-	-	-	-	-	-	-	-	0.1	0.5	0.1	0.1	0.8
VB	NORFOLK AVE	PACIFIC AVE	ATLANTIC AVE	EW	36	36	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	NORTHAMPTON BLVD	WESLEYAN DR/NORFOLK CL	DIAMOND SPRINGS RD	EW	2,239	2,126	(113)	-	-	-	-	-	-	-	-	-	-	0.6	1.7	0.8	0.3	3.4
VB	NORTHAMPTON BLVD	DIAMOND SPRINGS RD	INDEPENDENCE BLVD	EW	1,327	1,357	30	-	-	-	-	-	-	-	-	-	-	0.5	1.4	0.7	0.3	3.0
VB	NORTHAMPTON BLVD	INDEPENDENCE BLVD	SHORE DR	EW	942	1,015	73	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.7
VB	NORTH LANDING RD	CHESAPEAKE CL	INDIAN RIVER RD	EW	90	-	(90)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
VB	NORTH LANDING RD	INDIAN RIVER RD	SALEM RD	EW	158	148	(10)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
VB	NORTH LANDING RD	SALEM RD	WEST NECK RD	EW	158	134	(24)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
VB	NORTH LANDING RD	WEST NECK RD	PRINCESS ANNE RD	EW	158	146	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	OCEANA BLVD	GENERAL BOOTH BLVD	HARPERS RD/S.E. PARKWAY	NS	437	347	(90)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
VB	OCEANA BLVD	HARPERS RD/S.E. PARKWAY	TOMCAT BLVD (NAS MAIN ENT)	NS	437	362	(75)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5
VB	OCEANA BLVD/FIRST COLONIAL RD	TOMCAT BLVD (NAS MAIN ENT)	VA BEACH BLVD	NS	491	430	(61)	-	-	-	-	-	-	-	-	-	-	1.0	2.1	1.2	0.3	4.7
VB	PACIFIC AVE	ATLANTIC AVE	LASKIN RD	NS	249	252	3	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	PACIFIC AVE	LASKIN RD	22ND ST	NS	221	239	18	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3
VB	PACIFIC AVE	22ND ST	21ST ST	NS	221	229	8	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
VB	PACIFIC AVE	21ST ST	VA BEACH BLVD	NS	222	197	(25)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	PACIFIC AVE	VA BEACH BLVD	NORFOLK AVE	NS	241	246	5	-	-	-	-	-	-	-	-	-	-	0.1	0.6	0.2	0.1	1.0
VB	PACIFIC AVE	NORFOLK AVE	HARBOUR POINT	NS	276	266	(10)	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.6
VB	PEMBROKE BLVD	WITCHDUCK RD	INDEPENDENCE BLVD	EW	89	106	17	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
VB	PLAZA TRAIL, S.	PRINCESS ANNE RD	INDEPENDENCE BLVD	NS	129	174	45	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
VB	PLAZA TRAIL, S.	INDEPENDENCE BLVD	HOLLAND RD	NS	91	122	31	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	PLAZA TRAIL, S.	HOLLAND RD	MARINA LAKE RD	NS	88	63	(25)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
VB	PLAZA TRAIL, S.	MARINA LAKE RD	ROSEMONT RD	NS	88	92	4	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
VB	PLAZA TRAIL, S.	ROSEMONT RD	CONTINENTAL ST	NS	75	77	2	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.6
VB	PLAZA TRAIL, S.	CONTINENTAL ST	VA BEACH BLVD	NS	75	88	13	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
VB	PRINCESS ANNE RD	NEWTOWN RD/NORFOLK CL	KEMPSVILLE RD	EW	184	191	7	-	-	-	-	-	-	-	-	-	-	0.8	1.6	1.1	0.2	3.7
VB	PRINCESS ANNE RD	KEMPSVILLE RD	BAXTER RD	EW	212	209	(3)	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.5	0.1	1.5
VB	PRINCESS ANNE RD	BAXTER RD	PROVIDENCE RD	EW	191	181	(10)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.5	0.1	1.5
VB	PRINCESS ANNE RD	PROVIDENCE RD	FERRELL PKWY	EW	282	242	(40)	-	-	-	-	-	-	-	-	-	-	0.5	1.7	0.8	0.3	3.4
VB	PRINCESS ANNE RD	FERRELL PKWY	LYNNHAVEN PKWY	EW	1,351	1,313	(38)	-	-	-	-	-	-	-	-	-	-	0.7	1.5	0.9	0.3	3.5
VB	PRINCESS ANNE RD	LYNNHAVEN PKWY	INDEPENDENCE BLVD	EW	1,010	1,136	126	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.4	0.1	1.4
VB	PRINCESS ANNE RD	INDEPENDENCE BLVD	DAM NECK RD	EW	1,015	1,224	209	-	-	-	-	-	-	-	-	-	-	1.0	2.2	1.4	0.4	5.0
VB	PRINCESS ANNE RD	DAM NECK RD	S.E. PARKWAY	EW	228	543	315	-	-	-	-	-	-	-	-	-	-	0.7	1.9	1.3	0.3	4.2
VB	PRINCESS ANNE RD	S.E. PARKWAY	NIMMO PKWY	EW	228	497	269	-	-	-	-	-	-	-	-	-	-	0.5	1.1	0.7	0.2	2.5
VB	PRINCESS ANNE RD	NIMMO PKWY	NORTH LANDING RD	EW	152	124	(28)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
VB	PRINCESS ANNE RD	NORTH LANDING RD	HOLLAND RD	EW	299	247	(52)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
VB	PRINCESS ANNE RD	HOLLAND RD	SEABOARD RD	EW	377	324	(53)	-	-	-	-	-	-	-	-	-	-	1.3	3.4	1.5	0.7	6.9
VB	PRINCESS ANNE RD	SEABOARD RD	GENERAL BOOTH BLVD	EW	377	335	(42)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.2	1.2

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

					2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
VB	PRINCESS ANNE RD	GENERAL BOOTH BLVD	SANDBRIDGE RD/UPTON DR	NS	218	278	60	-	-	-	-	-	-	-	-	-	0.1	0.5	0.2	0.1	0.9	
VB	PRINCESS ANNE RD	SANDBRIDGE RD/UPTON DR	SEABOARD RD	NS	699	704	5	-	-	-	-	-	-	-	-	-	0.3	0.9	0.4	0.2	1.9	
VB	PRINCESS ANNE RD	SEABOARD RD	INDIAN RIVER RD	NS	746	759	13	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6	
VB	PRINCESS ANNE RD	INDIAN RIVER RD	PUNGO FERRY RD	NS	443	486	43	-	-	-	-	-	-	-	-	-	0.8	2.3	1.2	0.5	4.8	
VB	PRINCESS ANNE RD	PUNGO FERRY RD	NORTH CAROLINA STATE LINE	NS	211	288	77	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.2	1.2	
VB	PROVIDENCE RD	CHESAPEAKE CL	MILITARY HWY	EW	76	147	71	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
VB	PROVIDENCE RD	MILITARY HWY	INDIAN RIVER RD	EW	144	202	58	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4	
VB	PROVIDENCE RD	INDIAN RIVER RD	KEMPSVILLE RD	EW	223	317	94	-	-	-	-	-	-	-	-	-	0.8	1.3	1.0	0.2	3.3	
VB	PROVIDENCE RD	KEMPSVILLE RD	PRINCESS ANNE RD	EW	80	165	85	-	-	-	-	-	-	-	-	-	3.1	4.6	3.9	0.6	12.1	
VB	PUNGO FERRY RD	BLACKWATER RD	PRINCESS ANNE RD	EW	32	126	94	-	-	-	-	-	-	-	-	-	0.2	0.3	0.2	0.1	0.8	
VB	ROSEMONT RD	DAM NECK RD	BUCKNER BLVD	NS	225	207	(18)	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3	
VB	ROSEMONT RD	BUCKNER BLVD	LYNNHAVEN PKWY	NS	284	267	(17)	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.0	0.7	
VB	ROSEMONT RD	LYNNHAVEN PKWY	HOLLAND RD	NS	338	376	38	-	-	-	-	-	-	-	-	-	0.4	1.0	0.6	0.1	2.1	
VB	ROSEMONT RD	HOLLAND RD	PLAZA TRAIL	NS	291	306	15	-	-	-	-	-	-	-	-	-	0.7	2.2	1.0	0.4	4.3	
VB	ROSEMONT RD	PLAZA TRAIL	I-264	NS	312	325	13	-	-	-	-	-	-	-	-	-	0.4	1.6	0.6	0.3	2.9	
VB	ROSEMONT RD	I-264	VA BEACH BLVD	NS	294	345	51	-	-	-	-	-	-	-	-	-	0.2	1.0	0.3	0.2	1.8	
VB	SALEM RD	NORTH LANDING RD	ELBOW RD	NS	205	179	(26)	-	-	-	-	-	-	-	-	-	0.3	0.7	0.4	0.1	1.6	
VB	SALEM RD	ELBOW RD	INDEPENDENCE BLVD	NS	182	194	12	-	-	-	-	-	-	-	-	-	1.0	2.7	1.3	0.6	5.6	
VB	SALEM RD	INDEPENDENCE BLVD	LYNNHAVEN PKWY	NS	182	101	(81)	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3	
VB	SALEM RD	LYNNHAVEN PKWY	PRINCESS ANNE RD	NS	161	186	25	-	-	-	-	-	-	-	-	-	0.1	0.4	0.2	0.1	0.8	
VB	SANDBRIDGE RD	PRINCESS ANNE RD	ATWOODTOWN RD	EW	205	88	(117)	-	-	-	-	-	-	-	-	-	0.4	1.4	0.5	0.3	2.7	
VB	SANDBRIDGE RD	ATWOODTOWN RD	SANDPIPER DR	EW	122	146	24	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.2	1.5	
VB	SEABOARD RD	PRINCESS ANNE RD (AT PA ELEMENTARY)	PRINCESS ANNE RD (AT PUNGO FIELD)	NS	37	45	8	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1	
VB	SEABOARD RD EXTENDED	NIMMO PKWY	PRINCESS ANNE RD (AT PA ELEMENTARY)	NS	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
VB	SHORE DRIVE	NORFOLK CL	DIAMOND SPRINGS RD	EW	404	613	209	-	-	-	-	-	-	-	-	-	0.5	0.6	1.0	0.1	2.2	
VB	SHORE DRIVE	DIAMOND SPRINGS RD	INDEPENDENCE BLVD	EW	368	510	142	-	-	-	-	-	-	-	-	-	1.3	2.0	1.8	0.3	5.4	
VB	SHORE DRIVE	INDEPENDENCE BLVD	PLEASURE HOUSE RD	EW	228	361	133	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3	
VB	SHORE DRIVE	PLEASURE HOUSE RD	NORTHAMPTON BLVD	EW	214	385	171	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2	
VB	SHORE DRIVE	NORTHAMPTON BLVD	GREAT NECK RD	EW	415	410	(5)	-	-	-	-	-	-	-	-	-	3.8	7.9	10.0	0.9	22.6	
VB	SHORE DRIVE	GREAT NECK RD	ATLANTIC AVE	EW	215	167	(48)	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4	
VB	UPTON DR	NIMMO PKWY	PRINCESS ANNE RD	NS	273	166	(107)	-	-	-	-	-	-	-	-	-	0.0	0.0	0.1	0.0	0.1	
VB	VA BEACH BLVD	NEWTOWN RD/NORFOLK CL	WITCHDUCK RD	EW	542	750	208	-	-	-	-	-	-	-	-	-	0.5	0.8	0.7	0.1	2.1	
VB	VA BEACH BLVD	WITCHDUCK RD	INDEPENDENCE BLVD	EW	317	569	252	-	-	-	-	-	-	-	-	-	0.4	0.7	0.6	0.1	1.8	
VB	VA BEACH BLVD	INDEPENDENCE BLVD	CONSTITUTION DR	EW	631	796	165	-	-	-	-	-	-	-	-	-	0.2	0.4	0.3	0.1	1.0	
VB	VA BEACH BLVD	CONSTITUTION DR	ROSEMONT RD	EW	612	792	180	-	-	-	-	-	-	-	-	-	1.1	2.6	2.2	0.4	6.3	
VB	VA BEACH BLVD	ROSEMONT RD	S. PLAZA TRAIL/LITTLE NECK RD	EW	597	460	(137)	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.5	
VB	VA BEACH BLVD	S. PLAZA TRAIL/LITTLE NECK RD	LYNNHAVEN PKWY	EW	442	371	(71)	-	-	-	-	-	-	-	-	-	0.1	0.2	0.2	0.0	0.6	
VB	VA BEACH BLVD	LYNNHAVEN PKWY	GREAT NECK RD	EW	458	53	(405)	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1	
VB	VA BEACH BLVD	GREAT NECK RD	LASKIN RD	EW	280	377	97	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1	
VB	VA BEACH BLVD	LASKIN RD	FIRST COLONIAL RD	EW	461	457	(4)	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.6	
VB	VA BEACH BLVD	FIRST COLONIAL RD	N OCEANA BLVD	EW	243	275	32	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3	
VB	VA BEACH BLVD	N OCEANA BLVD	BIRDNECK RD	EW	192	227	35	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.3	
VB	VA BEACH BLVD	BIRDNECK RD	PACIFIC AVE	EW	212	222	10	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2	
VB	VA BEACH BLVD	PACIFIC AVE	ATLANTIC AVE	EW	212	268	56	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
VB	WESLEYAN DR	NORFOLK CL	BAKER RD	EW	151	321	170	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4	
VB	WESLEYAN DR	BAKER RD	DIAMOND SPRINGS RD	EW	113	253	140	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5	
VB	WESLEYAN DR	DIAMOND SPRINGS RD	HAYGOOD DR	EW	156	280	124	-	-	-	-	-	-	-	-	-	0.2	0.7	0.3	0.1	1.4	
VB	WEST NECK RD	NIMMO PKWY	NORTH LANDING RD	NS	168	196	28	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1	
VB	WEST NECK RD	NORTH LANDING RD	INDIAN RIVER RD	NS	84	116	32	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.5	
VB	WITCHDUCK RD	PRINCESS ANNE RD	I-264	NS	671	720	49	-	-	-	-	-	-	-	-	-	1.0	2.5	1.2	0.5	5.1	
VB	WITCHDUCK RD	I-264	VA BEACH BLVD	NS	911	1,097	186	-	-	-	-	-	-	-	-	-	1.1	3.6	1.9	0.5	7.1	
VB	WITCHDUCK RD	VA BEACH BLVD	PEMBROKE BLVD	NS	137	132	(5)	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4	
WMB	BOUNDARY ST	JAMESTOWN RD	FRANCIS ST	NS	100	106	6	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
WMB	BYPASS RD	RICHMOND RD	YORK CL	EW	198	437	239	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1	
WMB	BYPASS RD	ROUTE 132/YORK CL	PAGE ST	EW	187	491	304	-	-	-	-	-	-	-	-	-	0.3	0.6	0.4	0.1	1.2	
WMB	CAPITOL LANDING RD	BYPASS RD	MERRIMAC TRAIL	NS	136	139	3	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1	

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-6:00PM (hours)	Total Truck Delay 6:00PM-6:00AM (hours)	TOTAL Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-6:00PM (hours)	Total Truck Delay 6:00PM-6:00AM (hours)	TOTAL Weekday Truck Delay (hours)	Total Truck Delay 6:00AM-9:00AM (hours)	Total Truck Delay 9:00AM-3:00PM (hours)	Total Truck Delay 3:00PM-6:00PM (hours)	Total Truck Delay 6:00PM-6:00AM (hours)	TOTAL Weekday Truck Delay (hours)
WMB	COLONIAL NATL HIST PKWY	JAMES CITY CL/RTE 199	YORK CL	EW	21	-	(21)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	FRANCIS ST	BOUNDARY ST	HENRY ST	EW	71	82	11	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	HENRY ST S.	ROUTE 199	FRANCIS ST	NS	41	95	54	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.7
WMB	HENRY ST	FRANCIS ST	LAFAYETTE ST	NS	46	10	(36)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	HENRY ST N.	LAFAYETTE ST	RTE 132Y	NS	166	24	(142)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	IRONBOUND RD	JAMES CITY CL	DEPUE DR	EW	158	146	(12)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
WMB	IRONBOUND RD	DEPUE DR	LONGHILL RD	EW	84	52	(32)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
WMB	IRONBOUND RD	LONGHILL RD	RICHMOND RD	EW	122	88	(34)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	JAMESTOWN RD	JAMES CITY CL	RTE 199	EW	156	122	(34)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	JAMESTOWN RD	RTE 199	JOHN TYLER LN	EW	96	66	(30)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	JAMESTOWN RD	JOHN TYLER LN	COLLEGE CREEK	EW	113	83	(30)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
WMB	JAMESTOWN RD	COLLEGE CREEK	BOUNDARY ST	EW	113	86	(27)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.0	0.5
WMB	LAFAYETTE ST	RICHMOND RD	HENRY ST	EW	88	165	77	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
WMB	LAFAYETTE ST	HENRY ST	CAPITOL LANDING RD	EW	203	200	(3)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.3	0.1	1.2
WMB	LAFAYETTE ST	CAPITOL LANDING RD	PAGE ST	EW	167	151	(16)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
WMB	MERRIMAC TRAIL	YORK CL (SOUTH)	CAPITOL LANDING RD	NS	127	130	3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
WMB	MERRIMAC TRAIL	CAPITOL LANDING RD	YORK CL (NORTH)	NS	131	131	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	MONTICELLO AVE	IRONBOUND RD	RICHMOND RD	EW	171	175	4	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.1	0.0	0.4
WMB	PAGE ST	BYPASS RD	SECOND ST	NS	153	432	279	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
WMB	PAGE ST	SECOND ST	YORK ST	NS	151	156	5	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	QUARTERPATH RD	ROUTE 199	YORK ST	NS	11	22	11	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
WMB	RICHMOND RD	JAMES CITY CL	IRONBOUND RD	NS	333	748	415	-	-	-	-	-	-	-	-	-	-	0.4	0.9	0.5	0.1	1.9
WMB	RICHMOND RD	IRONBOUND RD	BYPASS RD	NS	376	778	402	-	-	-	-	-	-	-	-	-	-	0.5	1.0	0.9	0.1	2.6
WMB	RICHMOND RD	BYPASS RD	MONTICELLO AVE	NS	248	399	151	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.6
WMB	RICHMOND RD	MONTICELLO AVE	BROOKS ST	NS	193	274	81	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
WMB	RICHMOND RD	BROOKS ST	BOUNDARY ST	NS	193	274	81	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.1	0.6
WMB	ROUTE 132	ROUTE 132Y	BYPASS RD/YORK CL	NS	243	62	(181)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	ROUTE 132Y	ROUTE 132	COLONIAL PKWY	EW	84	69	(15)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
WMB	ROUTE 199	JAMES CITY CL (WEST)	JAMESTOWN RD	EW	766	930	164	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
WMB	ROUTE 199	JAMESTOWN RD	JAMES CITY CL (EAST)	EW	760	889	129	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
WMB	SECOND ST	PAGE ST	YORK CL	EW	202	520	318	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.0	0.7
WMB	TREYBURN DR	MONTICELLO AVE	IRONBOUND RD	NS	24	48	24	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
WMB	YORK ST	PAGE ST	JAMES CITY CL	EW	246	232	(14)	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.3	0.1	0.8
YC	BALLARD ST	COLONIAL PKWY	COOK RD	EW	110	219	109	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
YC	BALLARD ST	COOK RD	COAST GUARD TRAINING CENTER	EW	68	76	8	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
YC	BIG BETHEL RD	HAMPTON CL	HAMPTON HWY (RTE 134)	NS	104	212	108	-	-	-	-	-	-	-	-	-	-	0.2	0.3	0.3	0.1	0.9
YC	BIG BETHEL RD	HAMPTON HWY (RTE 134)	VICTORY BLVD (RTE 171)	NS	55	56	1	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
YC	BYPASS RD	WILLIAMSBURG CL	WALLER MILL RD	EW	198	437	239	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.2
YC	BYPASS RD	WALLER MILL RD	ROUTE 132/WILLIAMSBURG CL	EW	198	453	255	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.4	0.0	1.1
YC	COLONIAL NATL HIST PKWY	WILLIAMSBURG CL	BALLARD ST	EW	44	-	(44)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
YC	COOK RD	GEORGE WASHINGTON HWY	GOOSLEY RD	NS	64	200	136	-	-	-	-	-	-	-	-	-	-	0.3	0.4	0.8	0.1	1.6
YC	COOK RD	GOOSLEY RD	BALLARD ST	NS	60	176	116	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.1	0.0	0.1
YC	DENBIGH BLVD	NEWPORT NEWS CL	ROUTE 17	EW	201	157	(44)	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
YC	EAST YORKTOWN RD	VICTORY BLVD	POQUOSON CL	EW	28	48	20	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
YC	FORT EUSTIS BLVD	NEWPORT NEWS CL	ROUTE 17	EW	637	666	29	-	-	-	-	-	-	-	-	-	-	0.4	1.0	0.7	0.2	2.3
YC	FORT EUSTIS BLVD EXT	ROUTE 17	OLD YORK - HAMPTON HWY	EW	175	246	71	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
YC	GEORGE WASHINGTON HWY	NEWPORT NEWS CL	VICTORY BLVD (RTE 171)	NS	546	138	(408)	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.1	1.4
YC	GEORGE WASHINGTON HWY	VICTORY BLVD (RTE 171)	HAMPTON HWY (RTE 134)	NS	593	287	(306)	-	-	-	-	-	-	-	-	-	-	0.9	2.0	1.4	0.3	4.7
YC	GEORGE WASHINGTON HWY	HAMPTON HWY (RTE 134)	DARE RD	NS	757	601	(156)	-	-	-	-	-	-	-	-	-	-	3.1	4.8	5.0	1.0	13.9
YC	GEORGE WASHINGTON HWY	DARE RD	DENBIGH BLVD (RTE 173)	NS	549	237	(312)	-	-	-	-	-	-	-	-	-	-	1.2	2.6	1.8	0.6	6.2
YC	GEORGE WASHINGTON HWY	DENBIGH BLVD (RTE 173)	FORT EUSTIS BLVD (RTE 105)	NS	548	189	(359)	-	-	-	-	-	-	-	-	-	-	0.5	0.9	0.5	0.2	2.1
YC	GEORGE WASHINGTON HWY	FORT EUSTIS BLVD (RTE 105)	COOK RD	NS	975	654	(321)	-	-	-	-	-	-	-	-	-	-	1.6	2.5	3.0	0.7	7.7
YC	GEORGE WASHINGTON HWY	COOK RD	GOOSLEY RD (RTE 238)	NS	735	336	(399)	-	-	-	-	-	-	-	-	-	-	1.7	2.7	2.0	0.7	7.1
YC	GEORGE WASHINGTON HWY	GOOSLEY RD (RTE 238)	GLOUCESTER CL (COLEMAN BRIDGE)	NS	853	744	(109)	-	-	-	-	-	-	-	-	-	-	2.1	4.7	3.8	1.4	12.0
YC	GOODWIN NECK RD	ROUTE 17	WOLF TRAP RD	EW	400	321	(79)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.1	0.5
YC	GOOSLEY RD	OLD WILLIAMSBURG RD	CRAWFORD RD	EW	193	279	86	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.0	0.0	0.2
YC	GOOSLEY RD	CRAWFORD RD	ROUTE 17	EW	193	335	142	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.1
YC	GOOSLEY RD	ROUTE 17	COOK RD	EW	47	76	29	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1

Appendix D: Truck Delay by Location (20-Year Forecast) & Weekday Truck Volumes (2010 Existing and 20-Year Forecast) – Non-Interstates

Juris	Facility Name	Segment From	Segment To	Dir	2010 Existing Weekday Truck Volume	20-Year Forecast Weekday Truck Volume	Change in Weekday Truck Volume	Northbound/Eastbound					Southbound/Westbound					Combined				
								Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)	Total Truck Delay 6:00AM- 9:00AM (hours)	Total Truck Delay 9:00AM- 3:00PM (hours)	Total Truck Delay 3:00PM- 6:00PM (hours)	Total Truck Delay 6:00PM- 6:00AM (hours)	TOTAL Truck Delay (hours)
YC	HAMPTON HWY	ROUTE 17	VICTORY BLVD (RTE 171)	NS	318	468	150	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
YC	HAMPTON HWY	VICTORY BLVD (RTE 171)	BIG BETHEL RD (RTE 600)	NS	437	647	210	-	-	-	-	-	-	-	-	-	-	0.8	0.8	1.2	0.1	2.9
YC	HAMPTON HWY	BIG BETHEL RD (RTE 600)	NCL HAMPTON	NS	407	560	153	-	-	-	-	-	-	-	-	-	-	0.8	0.9	1.4	0.2	3.3
YC	MERRIMAC TRAIL	JAMES CITY CL	BUSCH GARDENS INTERCHANGE	NS	200	469	269	-	-	-	-	-	-	-	-	-	-	0.4	0.6	1.1	0.1	2.2
YC	MERRIMAC TRAIL	BUSCH GARDENS INTERCHANGE	ROUTE 199/JAMES CITY CL	NS	294	323	29	-	-	-	-	-	-	-	-	-	-	0.9	1.0	1.1	0.2	3.1
YC	MERRIMAC TRAIL	PENNIMAN RD/JAMES CITY CL	SECOND ST	NS	331	657	326	-	-	-	-	-	-	-	-	-	-	0.3	0.6	0.4	0.1	1.3
YC	MERRIMAC TRAIL	SECOND ST	WILLIAMSBURG CL	NS	159	173	14	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
YC	MERRIMAC TRAIL	WILLIAMSBURG CL	ROUTE 132	NS	129	-	(129)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
YC	MOORETOWN RD	WALLER MILL RD	AIRPORT RD	NS	94	138	44	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.1	0.0	0.3
YC	MOORETOWN RD	AIRPORT RD	OLD MOORETOWN RD	NS	143	188	45	-	-	-	-	-	-	-	-	-	-	0.1	0.4	0.1	0.1	0.7
YC	MOORETOWN RD	OLD MOORETOWN RD	ROUTE 199	NS	300	287	(13)	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
YC	NEWMAN RD	I-64	FENTON MILL RD	EW	34	105	71	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
YC	OLD WILLIAMSBURG RD	NEWPORT NEWS CL	BAPTIST RD/MAIN RD	EW	272	766	494	-	-	-	-	-	-	-	-	-	-	0.7	1.8	0.9	0.5	3.9
YC	OLD WILLIAMSBURG RD	BAPTIST RD/MAIN RD	GOOSLEY RD	EW	275	727	452	-	-	-	-	-	-	-	-	-	-	0.3	0.7	0.3	0.2	1.6
YC	PENNIMAN RD (RTE 641)	ROUTE 199	COLONIAL PKWY	EW	103	355	252	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.2	0.1	1.0
YC	POCAHONTAS TRAIL	JCC LINE @ RTE 199	KINGSMILL RD	EW	490	412	(78)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.0	0.4
YC	POCAHONTAS TRAIL	KINGSMILL RD	BUSCH GARDENS INTERCHANGE	EW	684	586	(98)	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.4	0.1	1.2
YC	POCAHONTAS TRAIL	BUSCH GARDENS INTERCHANGE	JAMES CITY CL	EW	653	884	231	-	-	-	-	-	-	-	-	-	-	0.9	1.7	1.7	0.2	4.5
YC	ROUTE 132	BYPASS RD/WILLIAMSBURG CL	ROUTE 143	NS	130	150	20	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1
YC	ROUTE 143	ROUTE 132	I-64	NS	268	49	(219)	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0
YC	ROUTE 199	JCC LINE (WESTSIDE)	MOORETOWN RD	EW	595	542	(53)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
YC	ROUTE 199	MOORETOWN RD	I-64	EW	650	557	(93)	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2
YC	ROUTE 199	RTE 60/RTE 143/JCC LINE	I-64	EW	912	644	(268)	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.1	0.1	0.5
YC	ROUTE 199	I-64	MARQUIS PKWY	EW	600	1,121	521	-	-	-	-	-	-	-	-	-	-	0.2	0.6	0.2	0.1	1.1
YC	ROUTE 199	MARQUIS PKWY	RTE 641 (PENNIMAN RD)	EW	288	502	214	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
YC	SECOND ST	WILLIAMSBURG CL	MERRIMAC TRAIL	EW	202	520	318	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.0	0.3
YC	VICTORY BLVD	NEWPORT NEWS CL	ROUTE 17	EW	649	744	95	-	-	-	-	-	-	-	-	-	-	0.5	2.0	1.0	0.4	3.9
YC	VICTORY BLVD	ROUTE 17	HAMPTON HWY (RTE 134)	EW	404	575	171	-	-	-	-	-	-	-	-	-	-	0.5	0.8	0.7	0.1	2.1
YC	VICTORY BLVD	HAMPTON HWY (RTE 134)	BIG BETHEL RD (RTE 600)	EW	244	321	77	-	-	-	-	-	-	-	-	-	-	0.3	1.0	0.5	0.2	1.9
YC	VICTORY BLVD	BIG BETHEL RD (RTE 600)	CARYS CHAPEL RD (RTE 782)	EW	259	316	57	-	-	-	-	-	-	-	-	-	-	0.4	1.1	0.7	0.2	2.4
YC	VICTORY BLVD	CARYS CHAPEL RD (RTE 782)	POQUOSON CL	EW	165	217	52	-	-	-	-	-	-	-	-	-	-	0.0	0.1	0.0	0.0	0.2
YC	WALLER MILL RD	ROUTE 60	MOORETOWN RD	NS	26	43	17	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.1